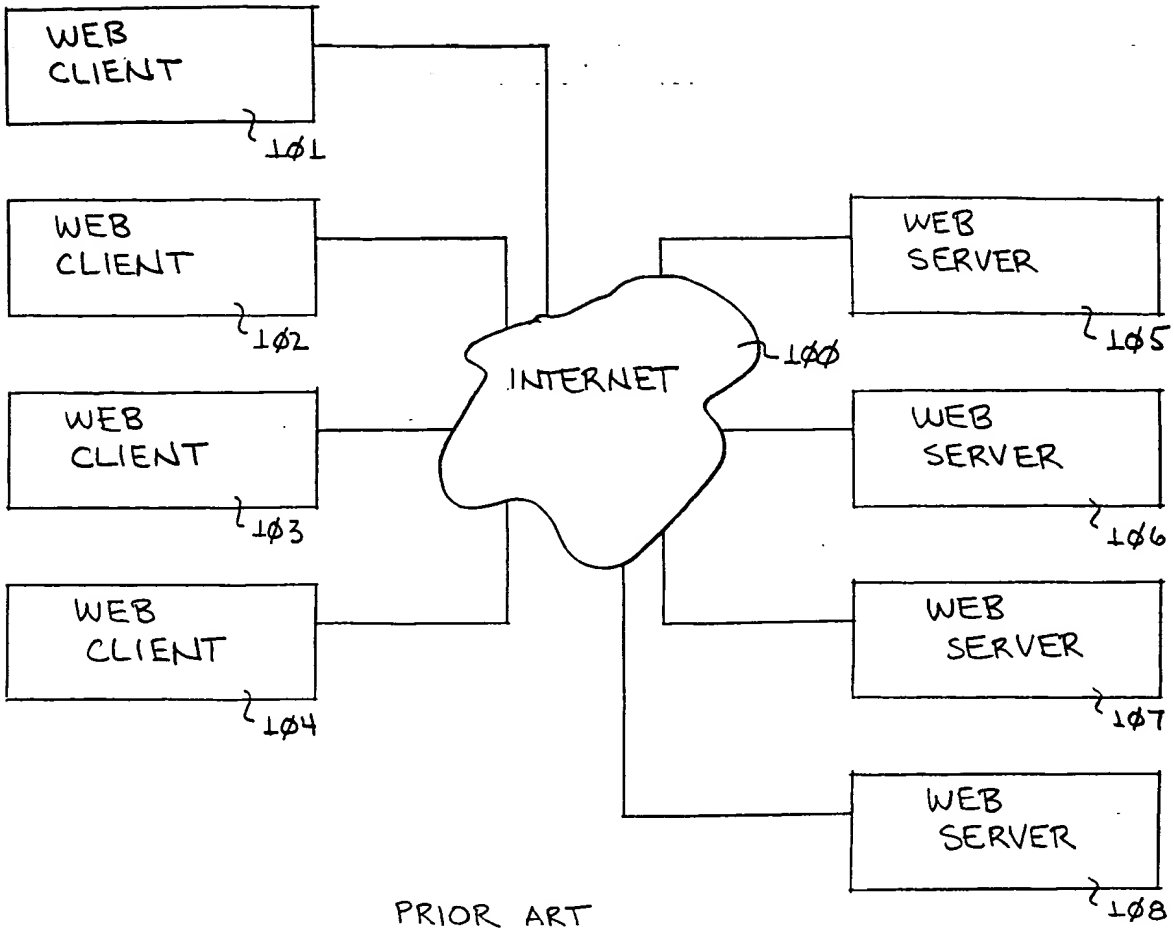
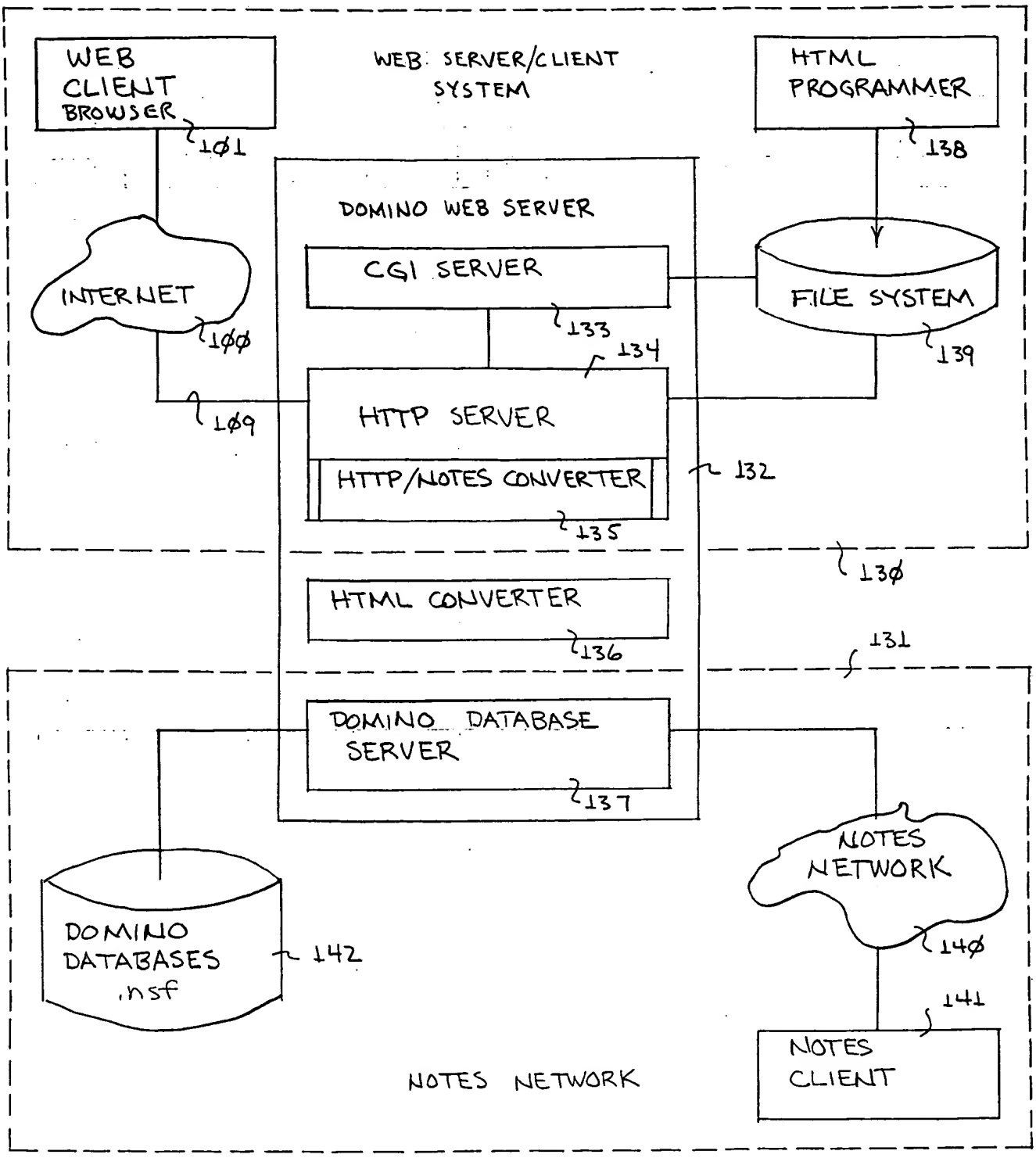


PRIOR ART

FIG. 1



PRIOR ART

FIG.2

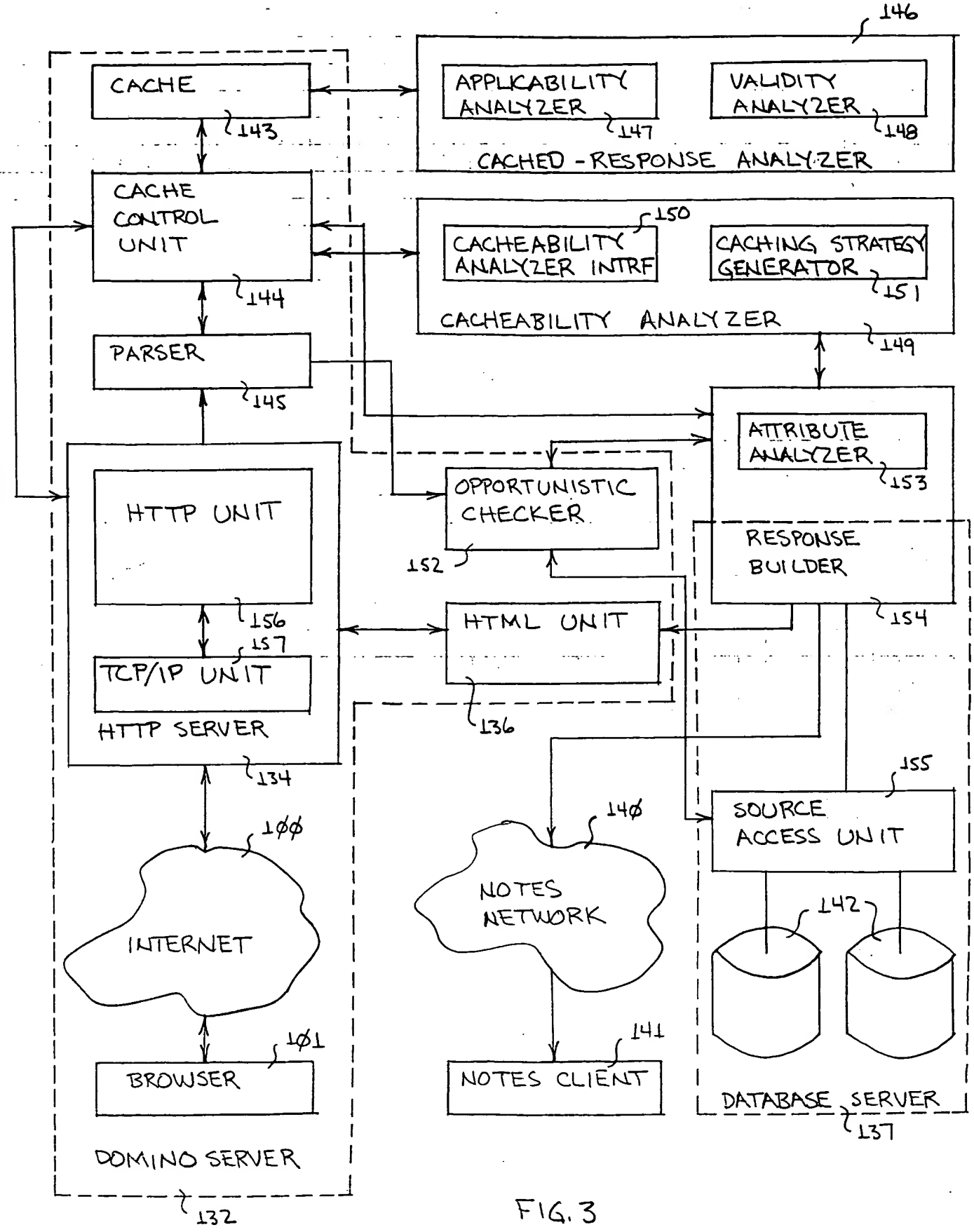

146
CACHE
143
APPLICABILITY ANALYZER
147
VALIDITY ANALYZER
148
CACHED-RESPONSE ANALYZER
CACHE CONTROL UNIT
144
150
CACHEABILITY ANALYZER INTRF
CACHING STRATEGY GENERATOR
151
CACHEABILITY ANALYZER
149
PARSER
145
ATTRIBUTE ANALYZER
153
HTTP UNIT
OPPORTUNISTIC CHECKER
152
RESPONSE BUILDER
154
156
157
TCP/IP UNIT
HTML UNIT
HTTP SERVER
136
134
155
SOURCE ACCESS UNIT
140
100
NOTES NETWORK
INTERNET
142
101
141
BROWSER
NOTES CLIENT
DATABASE SERVER
137
DOMINO SERVER
132

FIG. 3

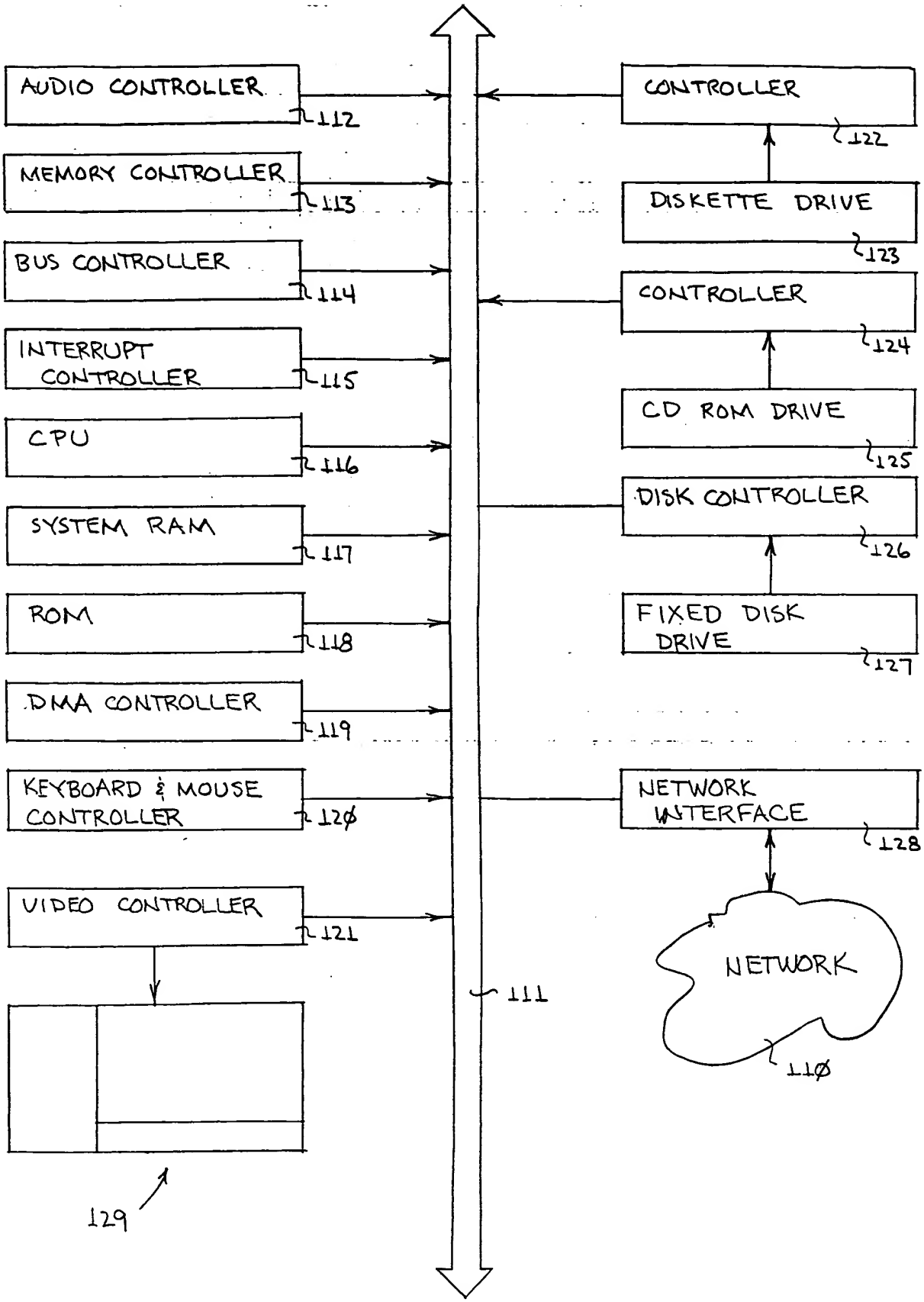


FIG. 4

PRIOR ART

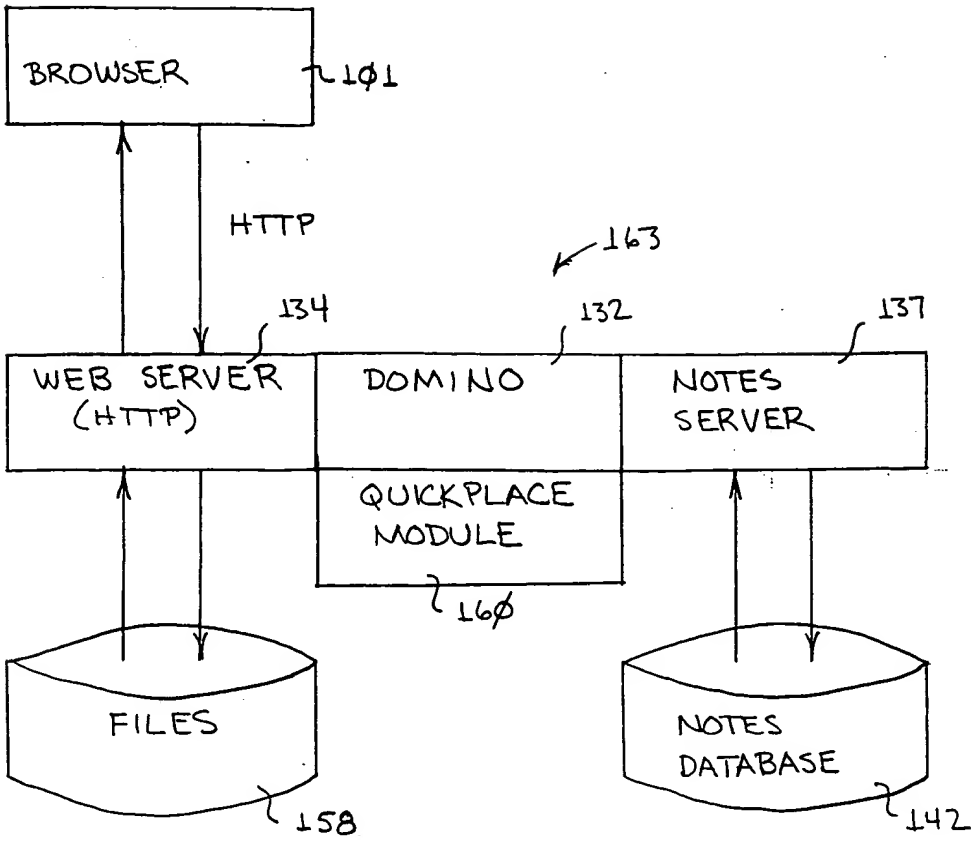

BROWSER
101
HTTP
163
134
132
137
WEB SERVER
(HTTP)
DOMINO
NOTES
SERVER
QUICKPLACE
MODULE
160
FILES
158
NOTES
DATABASE
142

FIG. 5

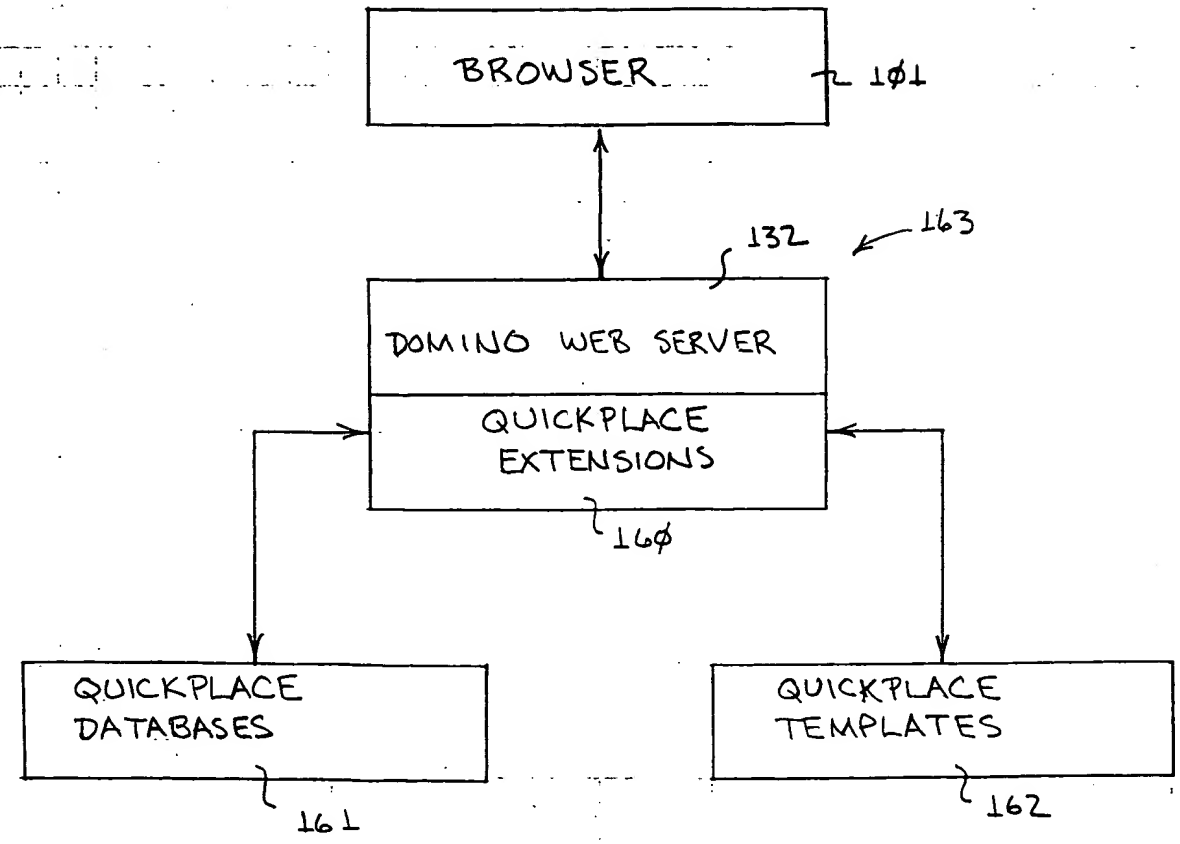

BROWSER
101
132
163
DOMINO WEB SERVER
QUICKPLACE EXTENSIONS
160
QUICKPLACE DATABASES
161
QUICKPLACE TEMPLATES
162

FIG. 6

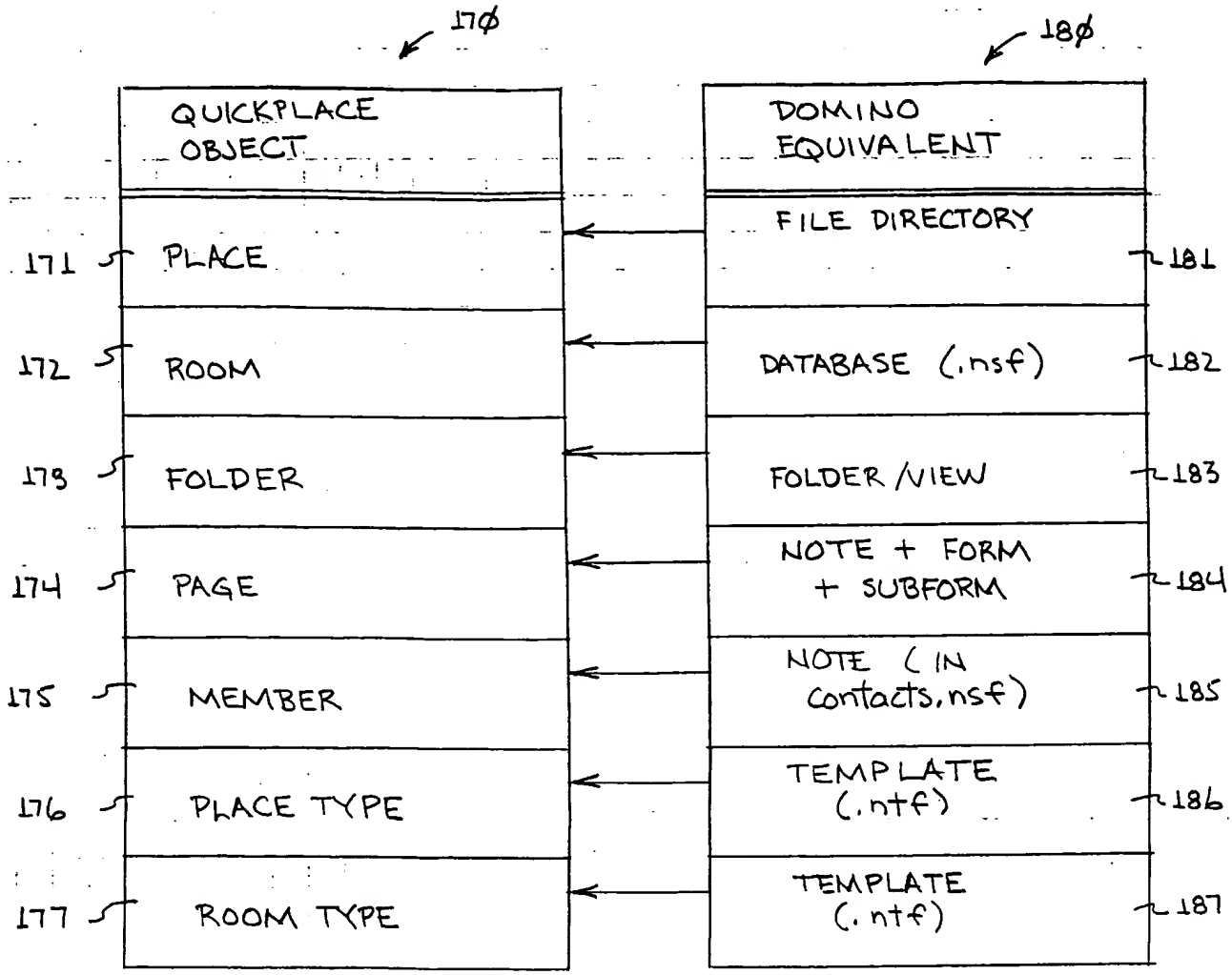

170
180
QUICKPLACE OBJECT
DOMINO EQUIVALENT
171
PLACE
FILE DIRECTORY
181
172
ROOM
DATABASE (.nsf)
182
173
FOLDER
FOLDER/VIEW
183
174
PAGE
NOTE + FORM + SUBFORM
184
175
MEMBER
NOTE (IN Contacts.nsf)
185
176
PLACE TYPE
TEMPLATE (.ntf)
186
177
ROOM TYPE
TEMPLATE (.ntf)
187

FIG. 7

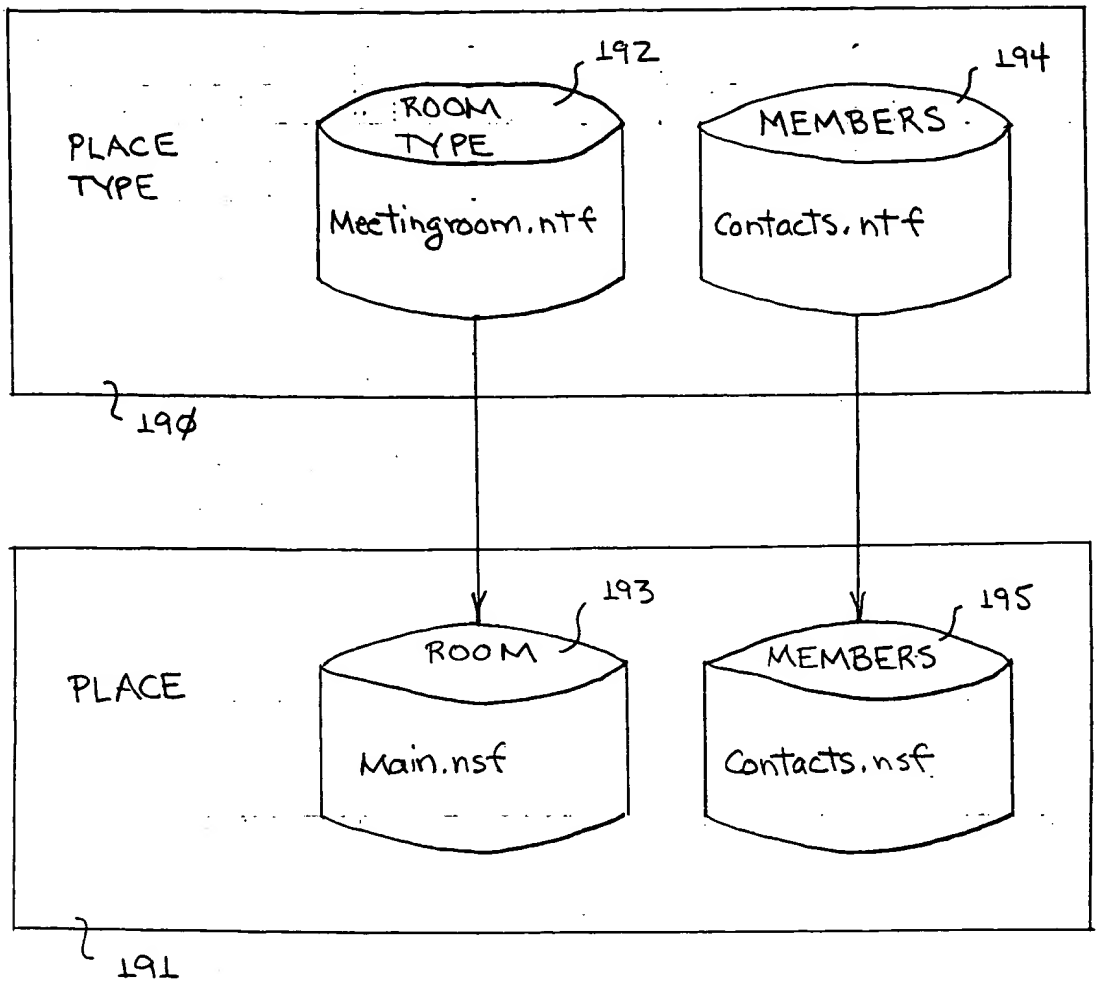

PLACE TYPE
192
ROOM TYPE
Meetingroom.ntf
194
MEMBERS
Contacts.ntf
190
PLACE
193
ROOM
Main.nsf
195
MEMBERS
Contacts.nsf
191

FIG. 8

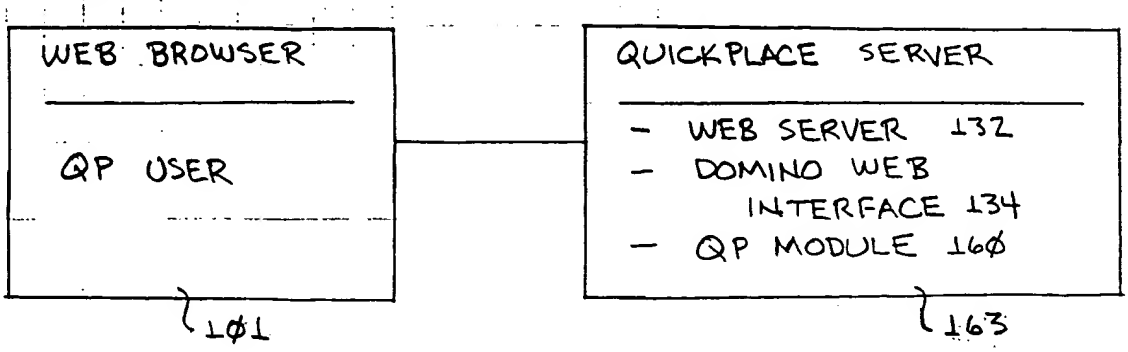

WEB BROWSER
QP USER
101
QUICKPLACE SERVER
- WEB SERVER 132
- DOMINO WEB INTERFACE 134
- QP MODULE 160
163

FIG. 9

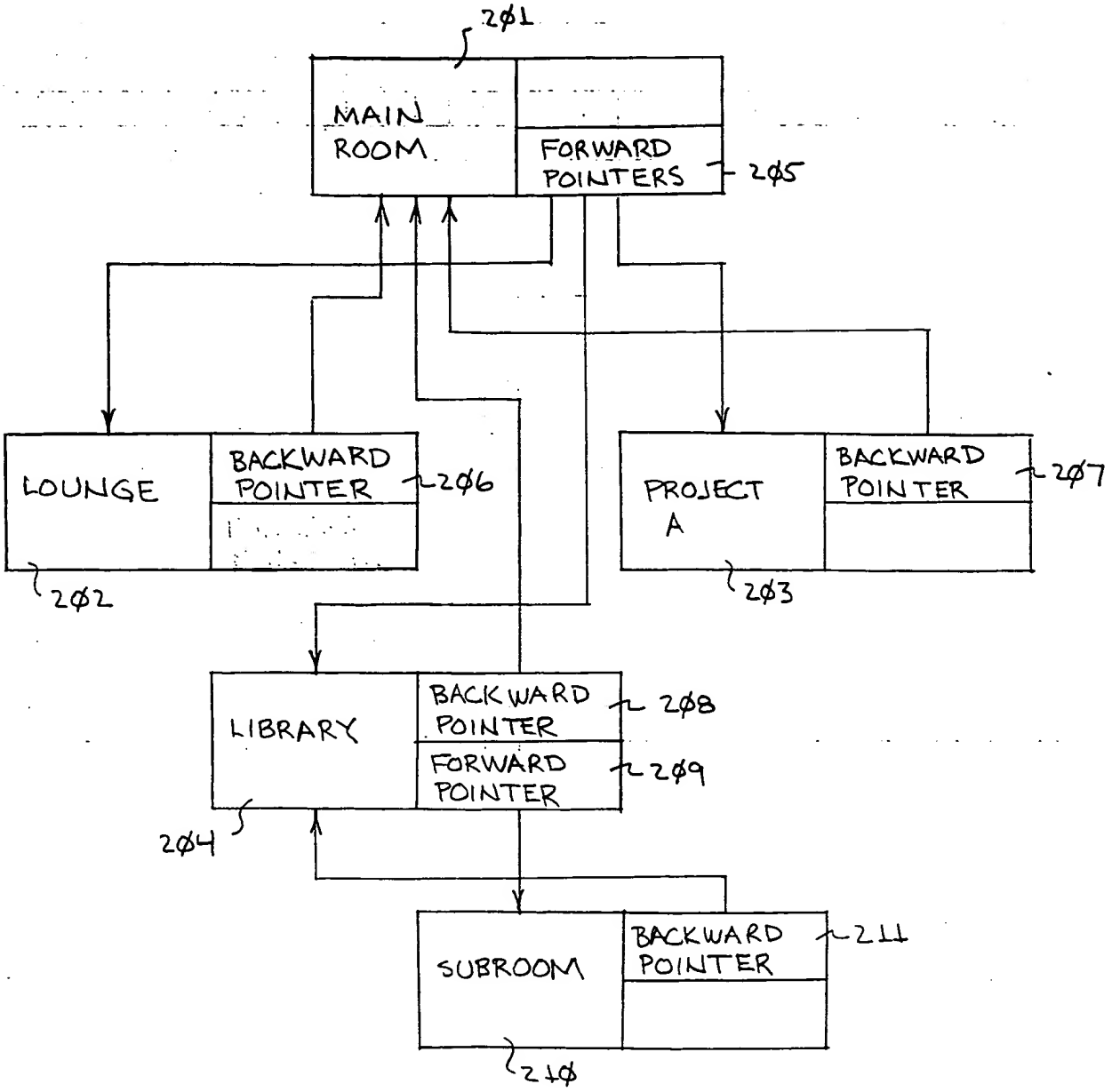

201
MAIN ROOM
FORWARD POINTERS
205
LOUNGE
BACKWARD POINTER
206
202
PROJECT A
BACKWARD POINTER
207
203
LIBRARY
BACKWARD POINTER
208
FORWARD POINTER
209
204
SUBROOM
BACKWARD POINTER
211
210

FIG. 10

FORWARD POINTER 209

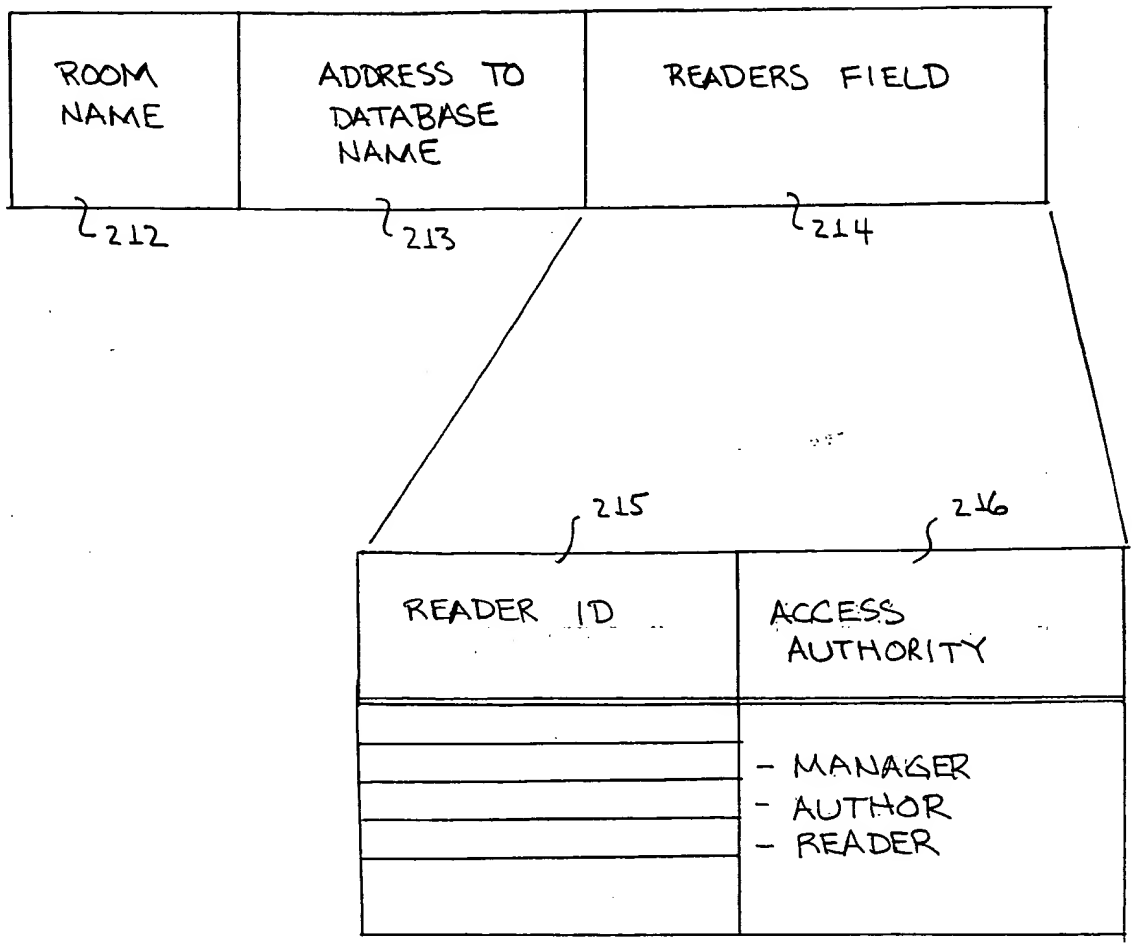


FIG. 11

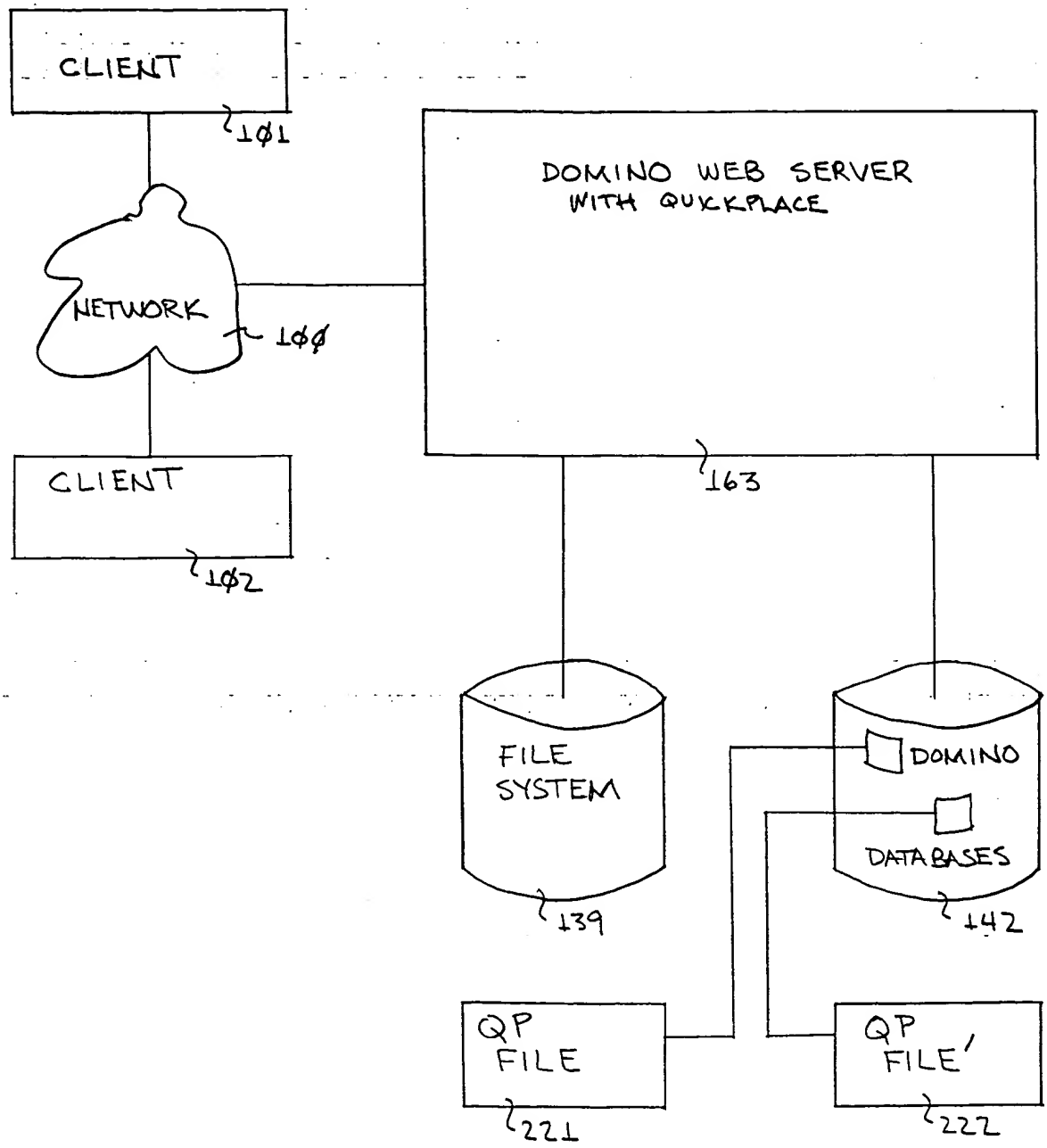

CLIENT
101
DOMINO WEB SERVER
WITH QUICKPLACE
NETWORK
100
CLIENT
102
163
FILE
SYSTEM
139
DOMINO
DATABASES
142
QP
FILE
221
QP
FILE'
222

FIG. 12

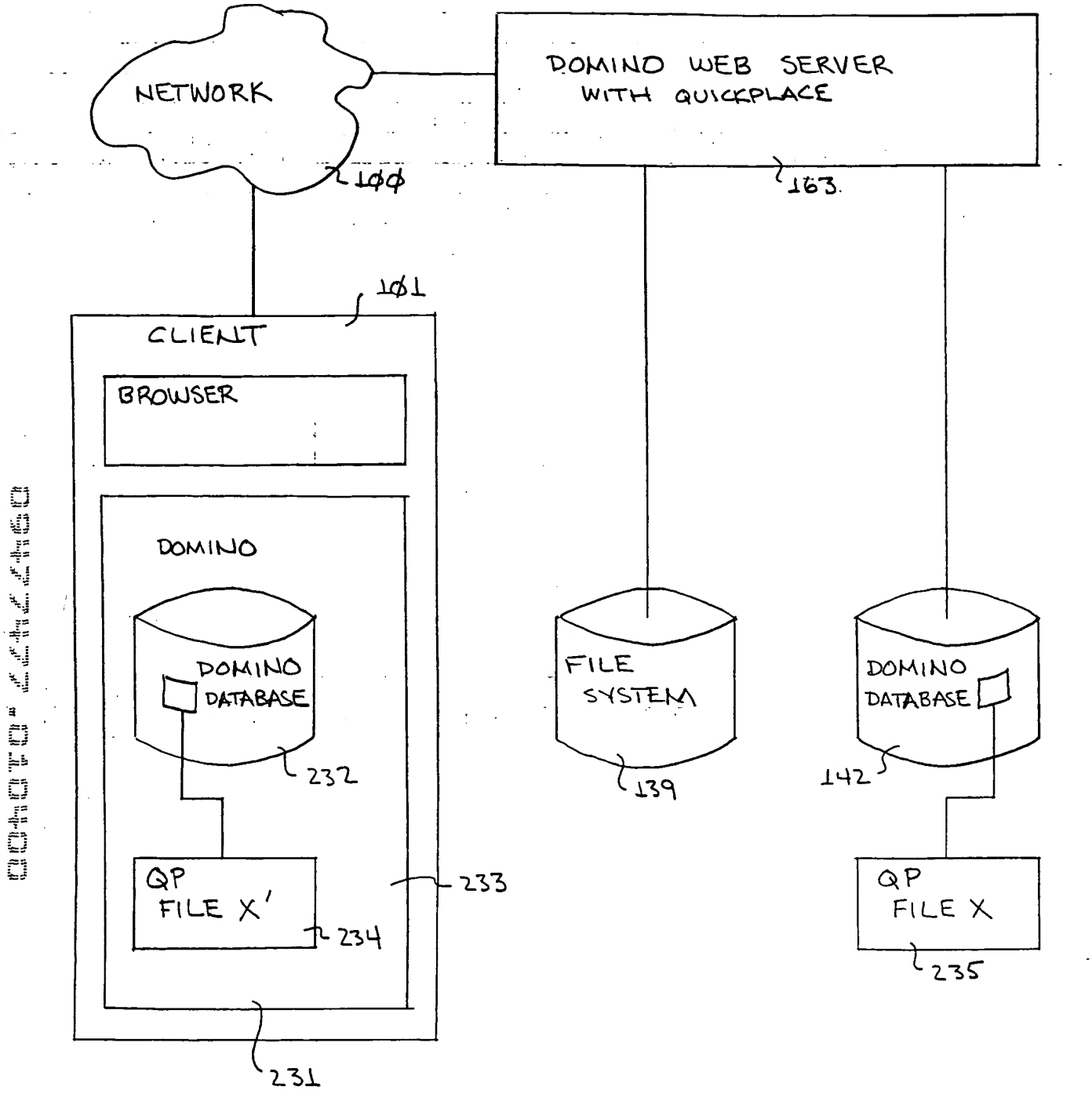

NETWORK
100
DOMINO WEB SERVER
WITH QUICKPLACE
163
101
CLIENT
BROWSER
DOMINO
DOMINO
DATABASE
232
QP
FILE X'
234
233
231
FILE
SYSTEM
139
DOMINO
DATABASE
142
QP
FILE X
235

FIG. 13

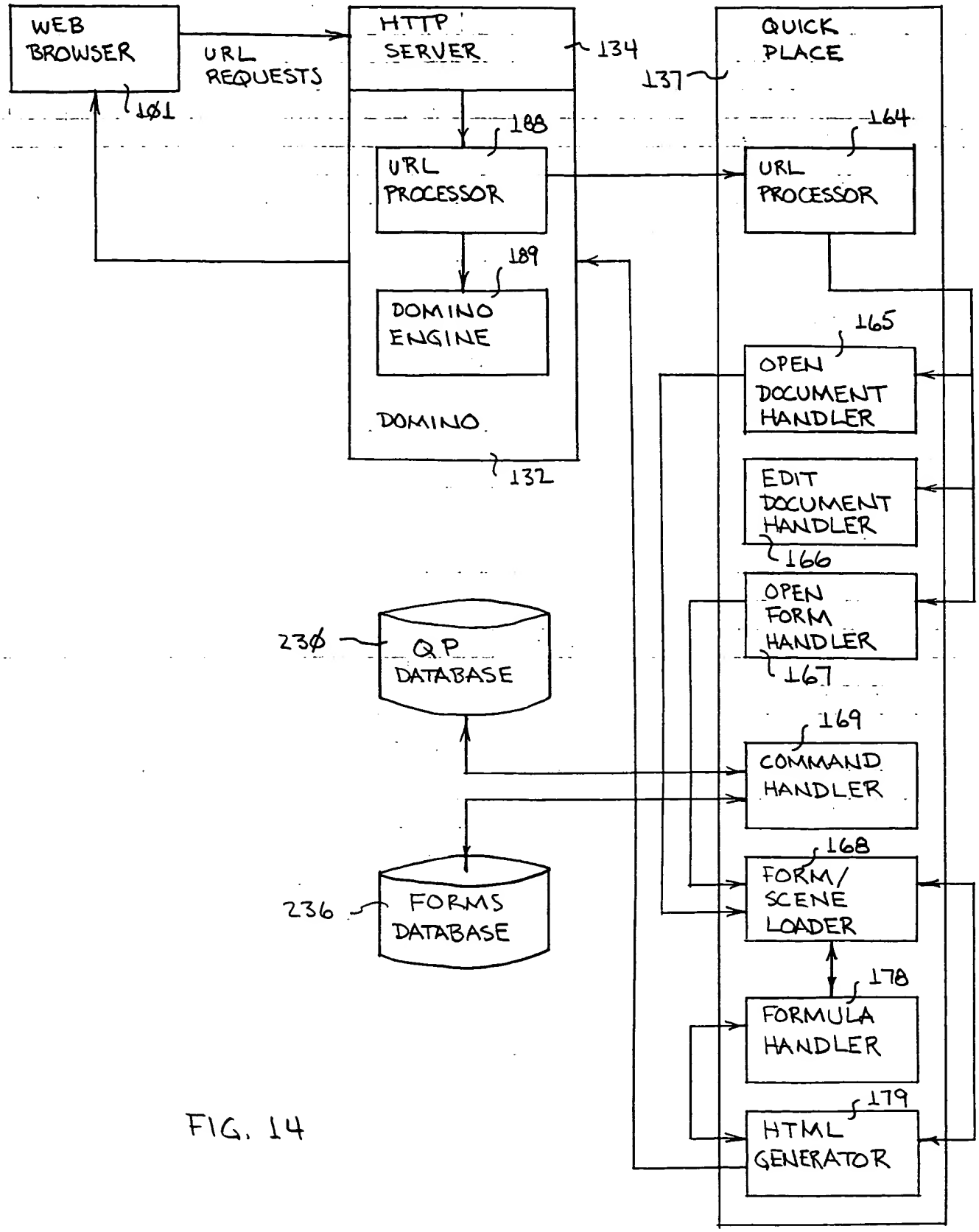

WEB BROWSER
101
URL REQUESTS
HTTP SERVER
134
188
URL PROCESSOR
189
DOMINO ENGINE
DOMINO
132
QUICK PLACE
137
164
URL PROCESSOR
165
OPEN DOCUMENT HANDLER
EDIT DOCUMENT HANDLER
166
OPEN FORM HANDLER
167
230
QP DATABASE
169
COMMAND HANDLER
168
FORM/ SCENE LOADER
178
FORMULA HANDLER
179
HTML GENERATOR
236
FORMS DATABASE

FIG. 14

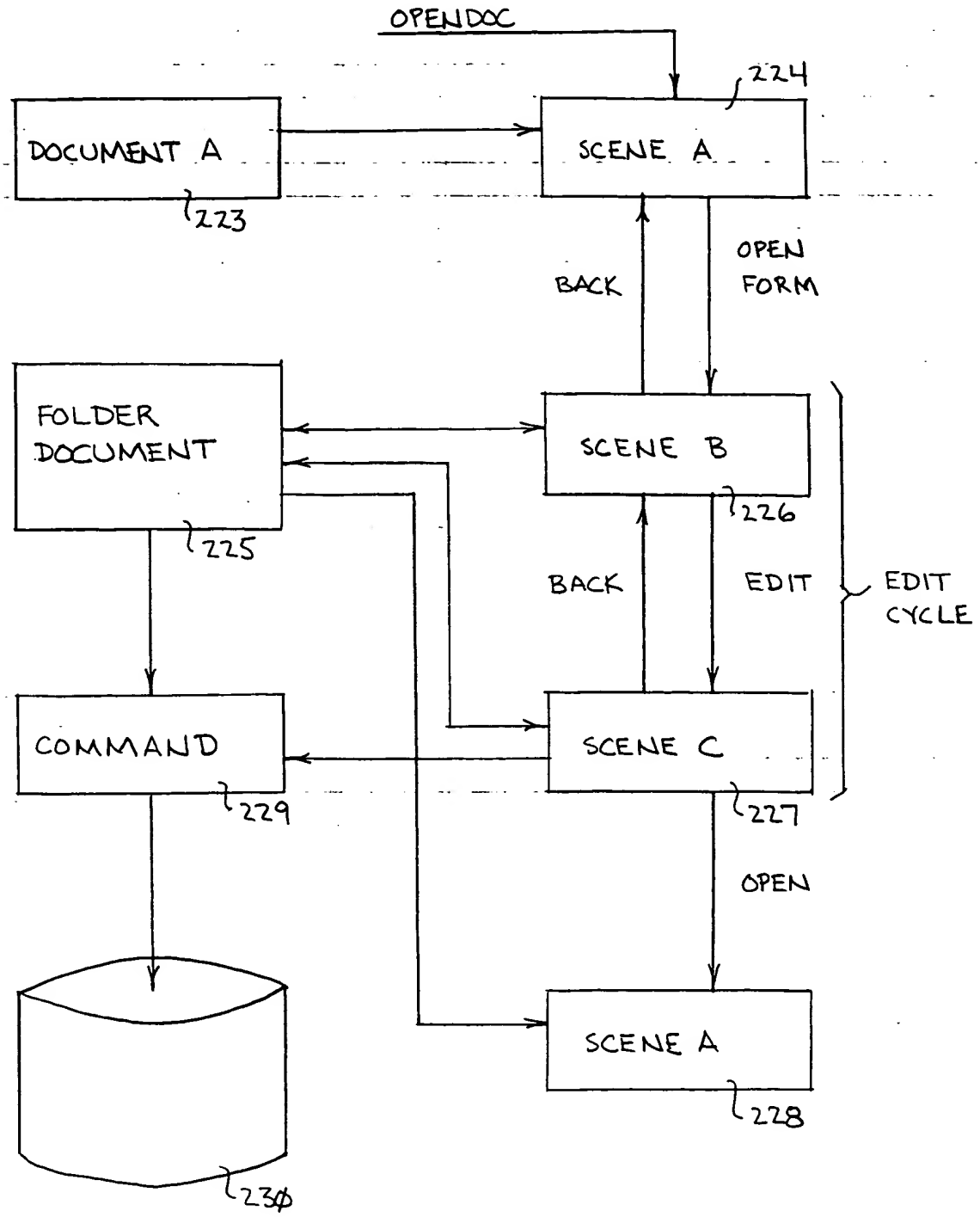

OPENDOC
224
DOCUMENT A
223
SCENE A
BACK
OPEN
FORM
FOLDER
DOCUMENT
225
SCENE B
226
BACK
EDIT
EDIT
CYCLE
COMMAND
229
SCENE C
227
OPEN
SCENE A
228
230

FIG. 15

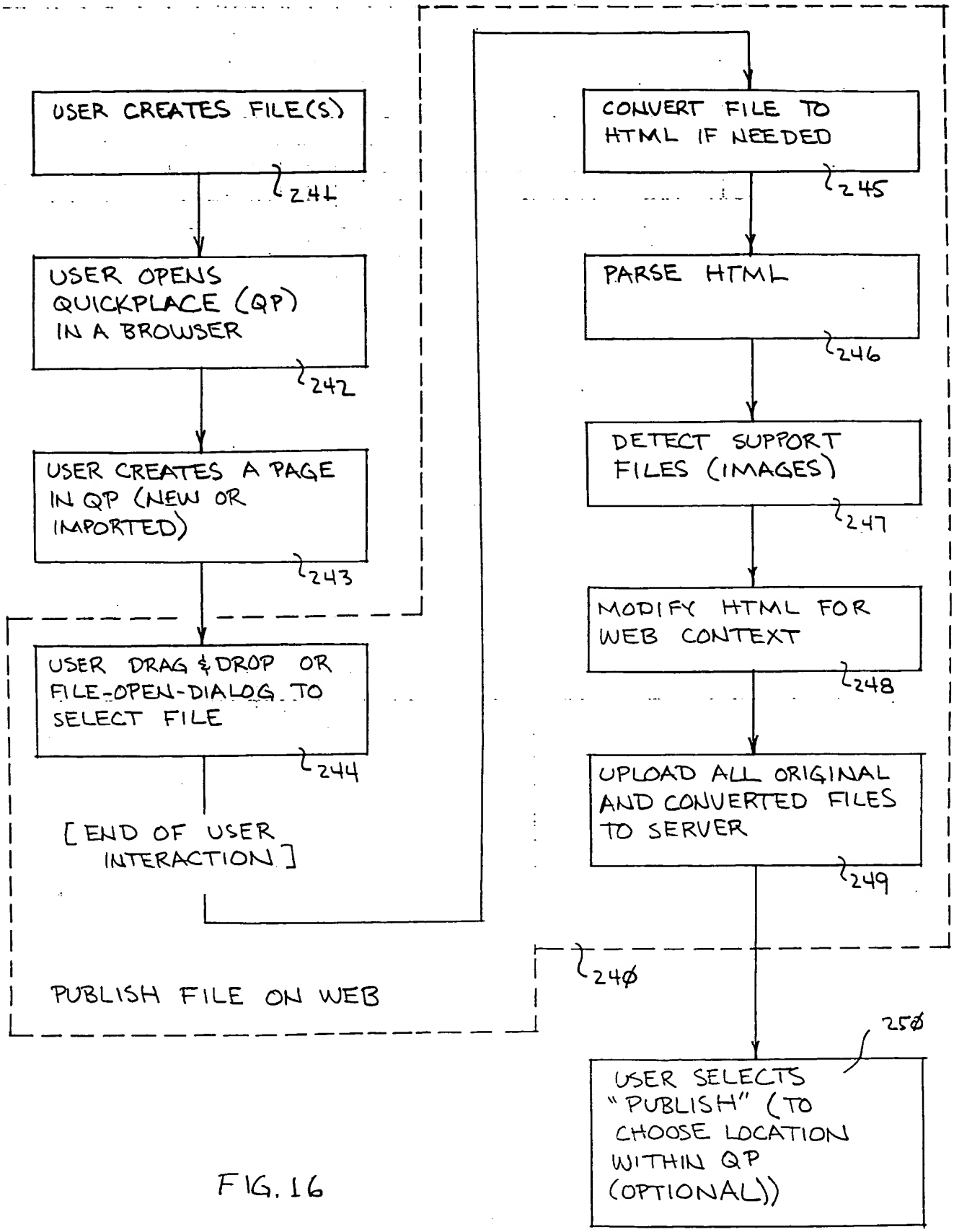

USER CREATES FILE(S)
241
USER OPENS QUICKPLACE (QP) IN A BROWSER
242
USER CREATES A PAGE IN QP (NEW OR IMPORTED)
243
USER DRAG & DROP OR FILE-OPEN-DIALOG TO SELECT FILE
244
[END OF USER INTERACTION]
CONVERT FILE TO HTML IF NEEDED
245
PARSE HTML
246
DETECT SUPPORT FILES (IMAGES)
247
MODIFY HTML FOR WEB CONTEXT
248
UPLOAD ALL ORIGINAL AND CONVERTED FILES TO SERVER
249
240
PUBLISH FILE ON WEB
250
USER SELECTS "PUBLISH" (TO CHOOSE LOCATION WITHIN QP (OPTIONAL))

FIG. 16

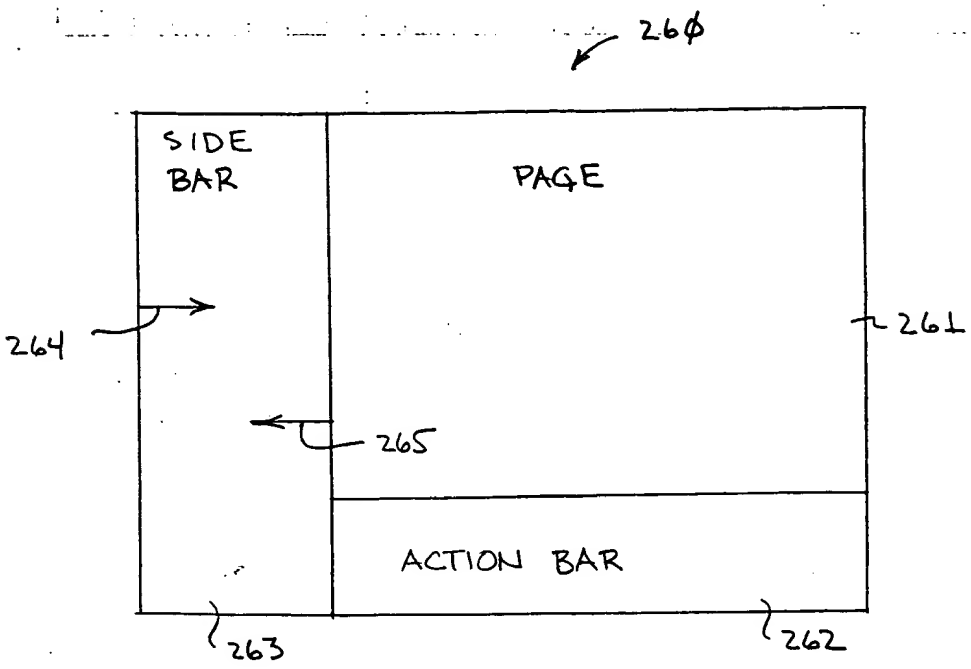


FIG. 17

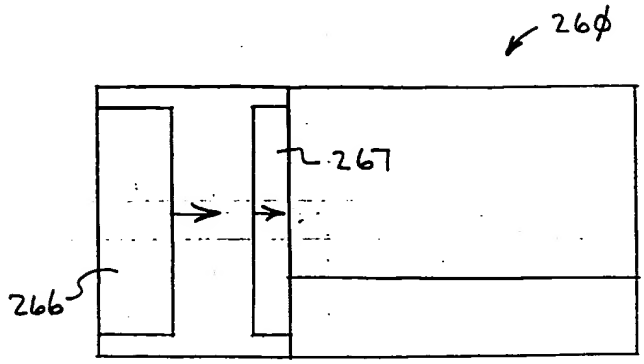


FIG. 18

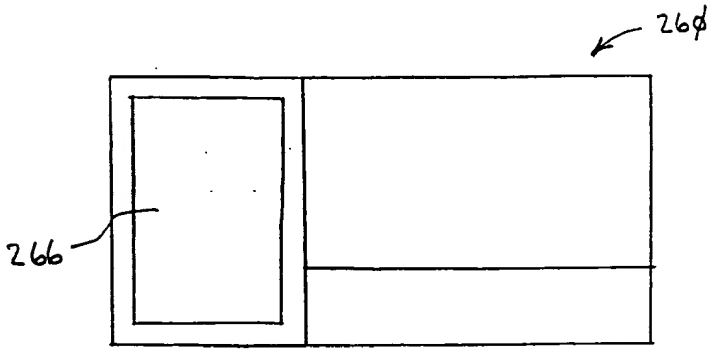


FIG. 19

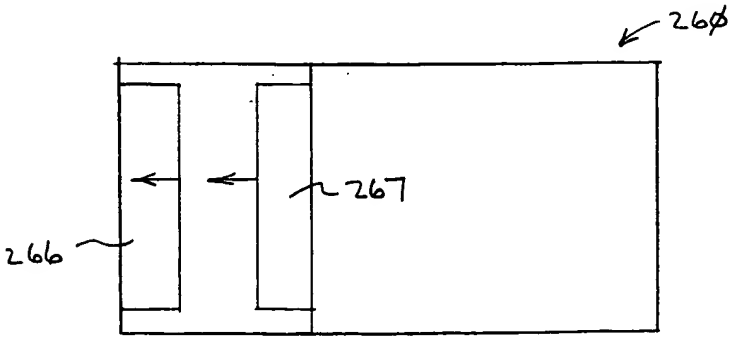


FIG. 20

Substitute Sheet (Rule 26)

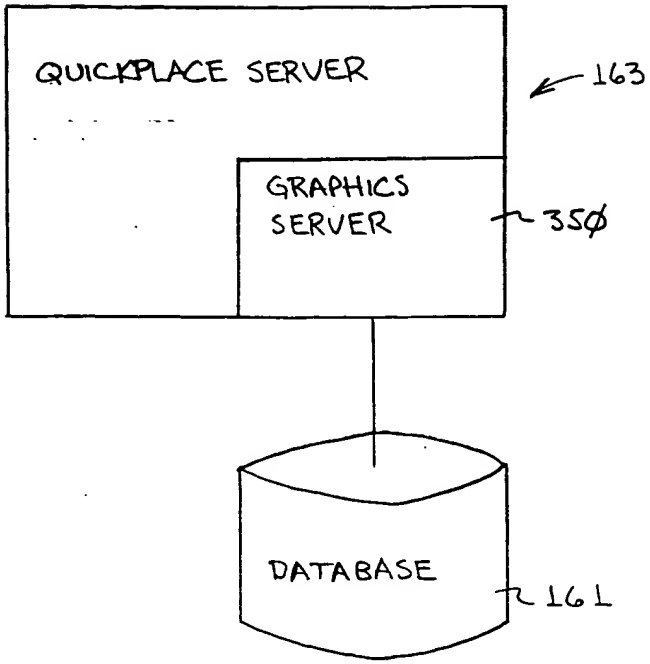


FIG. 21

Exhibit 2002

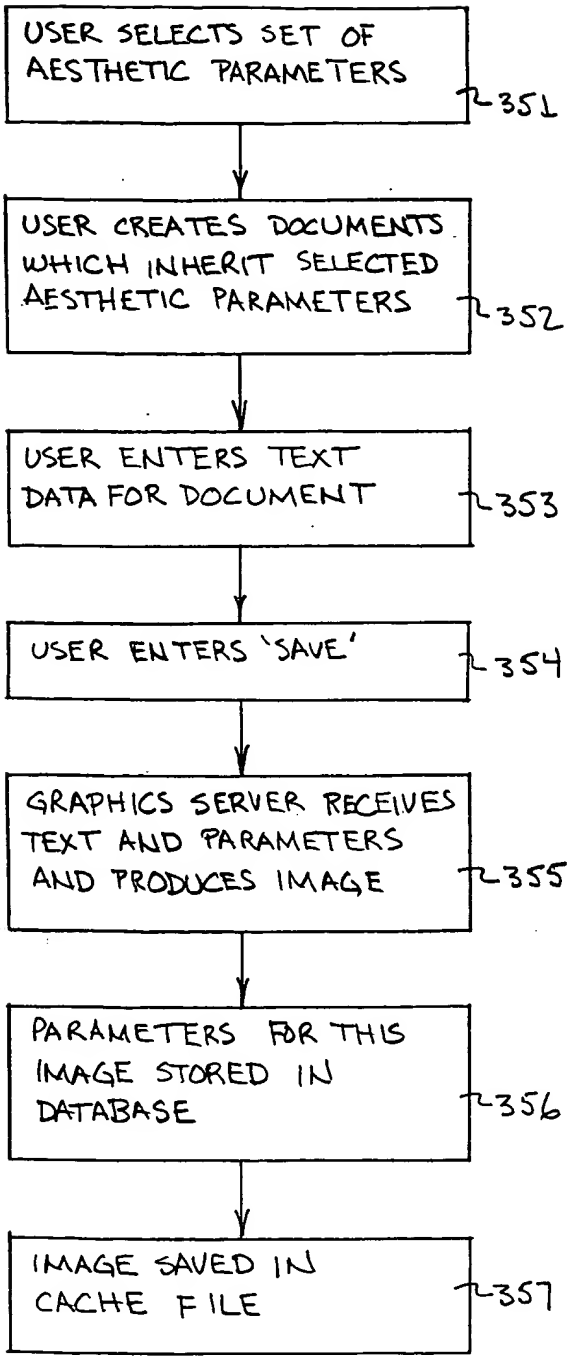

USER SELECTS SET OF AESTHETIC PARAMETERS
351
USER CREATES DOCUMENTS WHICH INHERIT SELECTED AESTHETIC PARAMETERS
352
USER ENTERS TEXT DATA FOR DOCUMENT
353
USER ENTERS 'SAVE'
354
GRAPHICS SERVER RECEIVES TEXT AND PARAMETERS AND PRODUCES IMAGE
355
PARAMETERS FOR THIS IMAGE STORED IN DATABASE
356
IMAGE SAVED IN CACHE FILE
357

FIG. 22

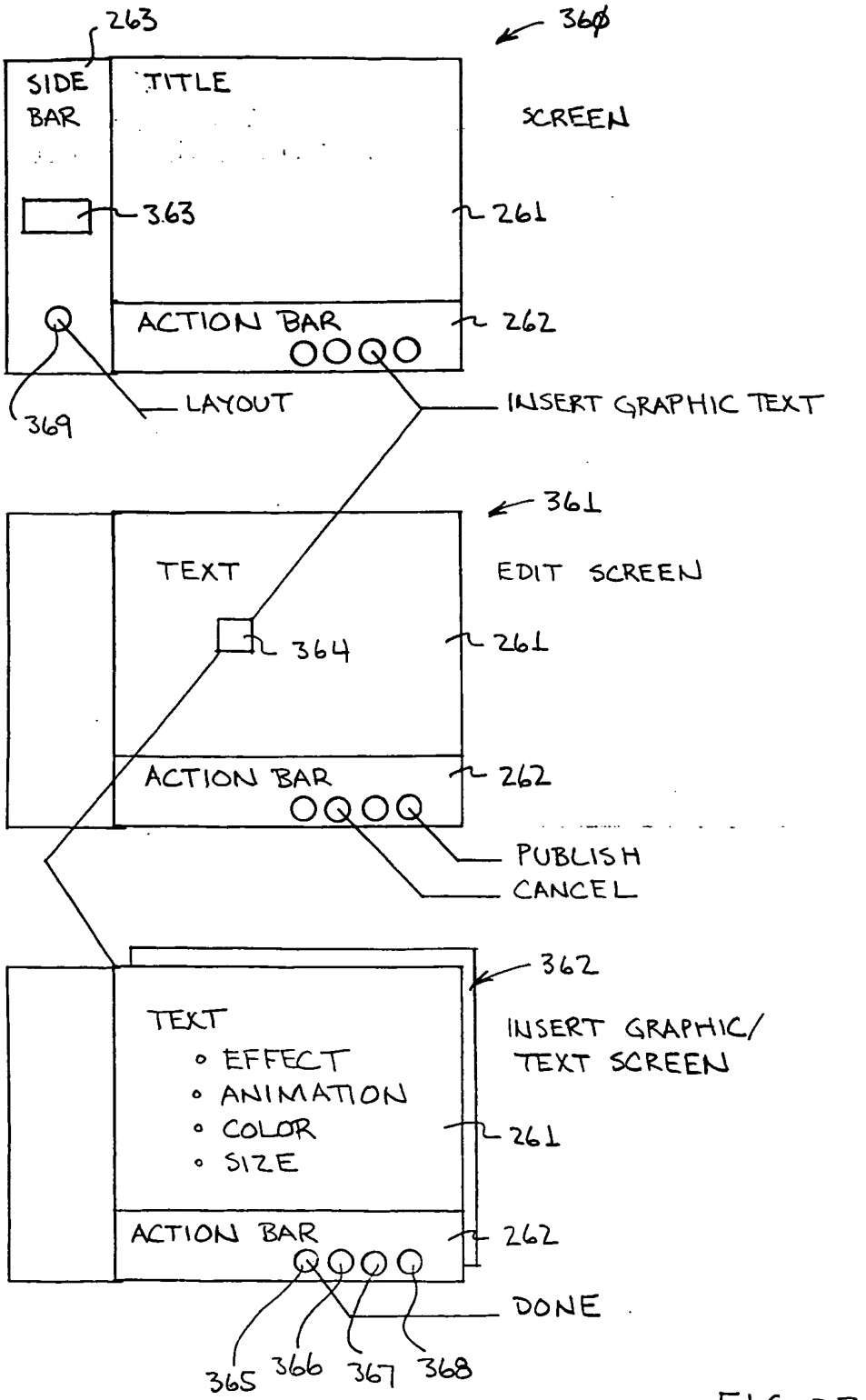

263
360
SIDE BAR
TITLE
SCREEN
363
261
ACTION BAR
262
369
LAYOUT
INSERT GRAPHIC TEXT
361
TEXT
EDIT SCREEN
364
261
ACTION BAR
262
PUBLISH
CANCEL
362
TEXT
INSERT GRAPHIC/ TEXT SCREEN
• EFFECT
• ANIMATION
• COLOR
• SIZE
261
ACTION BAR
262
DONE
365
366
367
368

FIG. 23

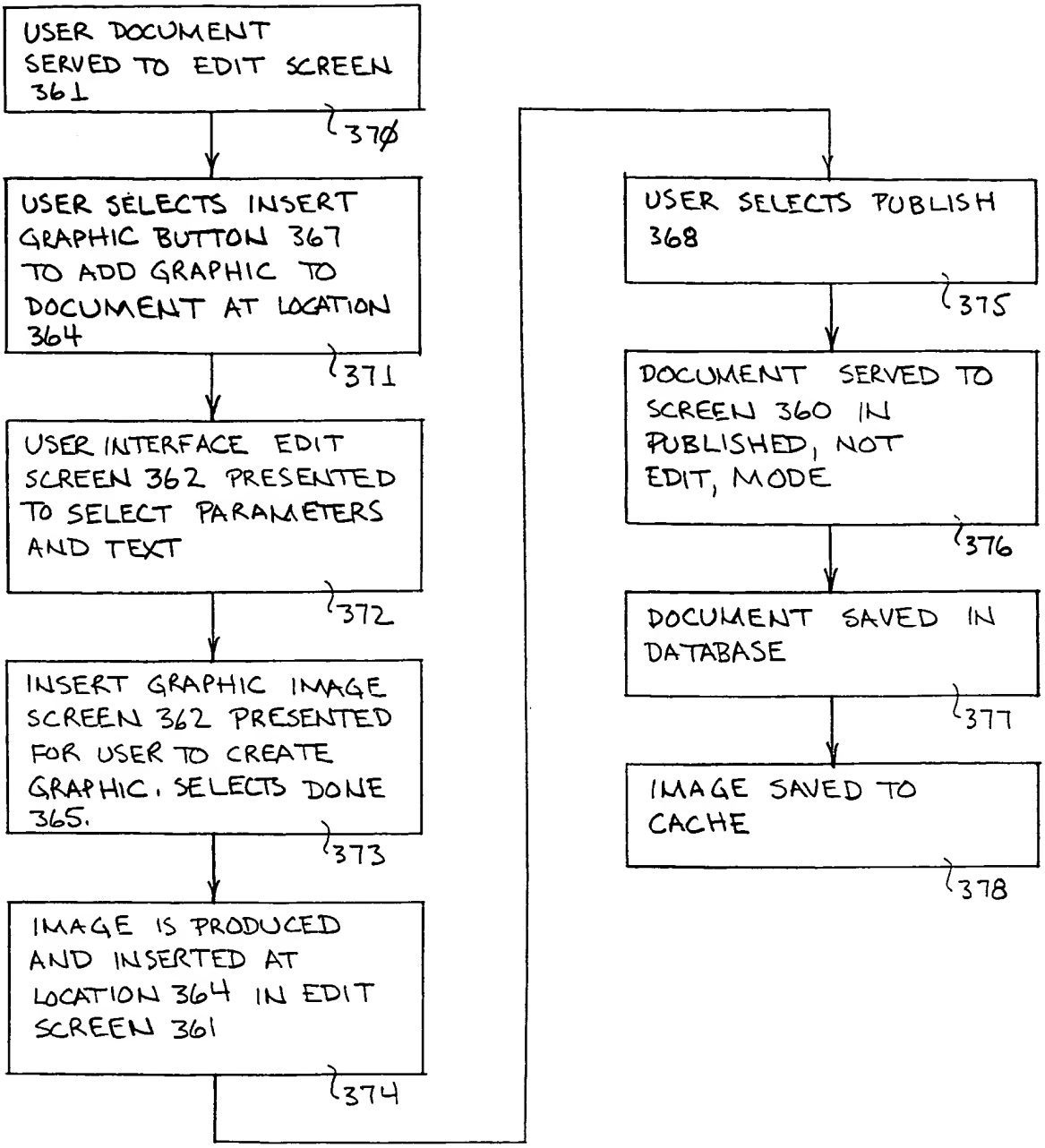

USER DOCUMENT SERVED TO EDIT SCREEN 361
370
USER SELECTS INSERT GRAPHIC BUTTON 367 TO ADD GRAPHIC TO DOCUMENT AT LOCATION 364
371
USER INTERFACE EDIT SCREEN 362 PRESENTED TO SELECT PARAMETERS AND TEXT
372
INSERT GRAPHIC IMAGE SCREEN 362 PRESENTED FOR USER TO CREATE GRAPHIC. SELECTS DONE 365.
373
IMAGE IS PRODUCED AND INSERTED AT LOCATION 364 IN EDIT SCREEN 361
374
USER SELECTS PUBLISH 368
375
DOCUMENT SERVED TO SCREEN 360 IN PUBLISHED, NOT EDIT, MODE
376
DOCUMENT SAVED IN DATABASE
377
IMAGE SAVED TO CACHE
378

FIG. 24

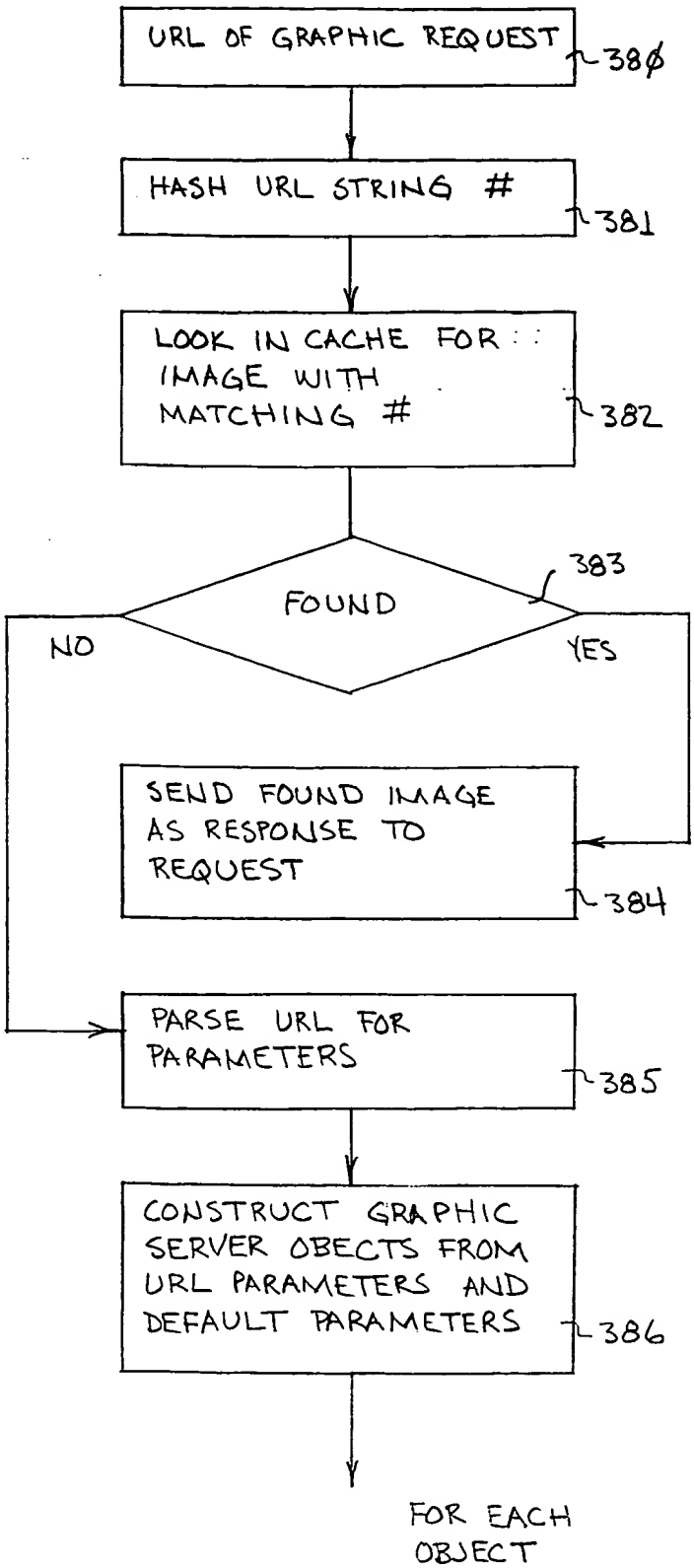

URL OF GRAPHIC REQUEST
380
HASH URL STRING #
381
LOOK IN CACHE FOR IMAGE WITH MATCHING #
382
FOUND
383
NO
YES
SEND FOUND IMAGE AS RESPONSE TO REQUEST
384
PARSE URL FOR PARAMETERS
385
CONSTRUCT GRAPHIC SERVER OBECTS FROM URL PARAMETERS AND DEFAULT PARAMETERS
386
FOR EACH OBJECT

FIG. 25

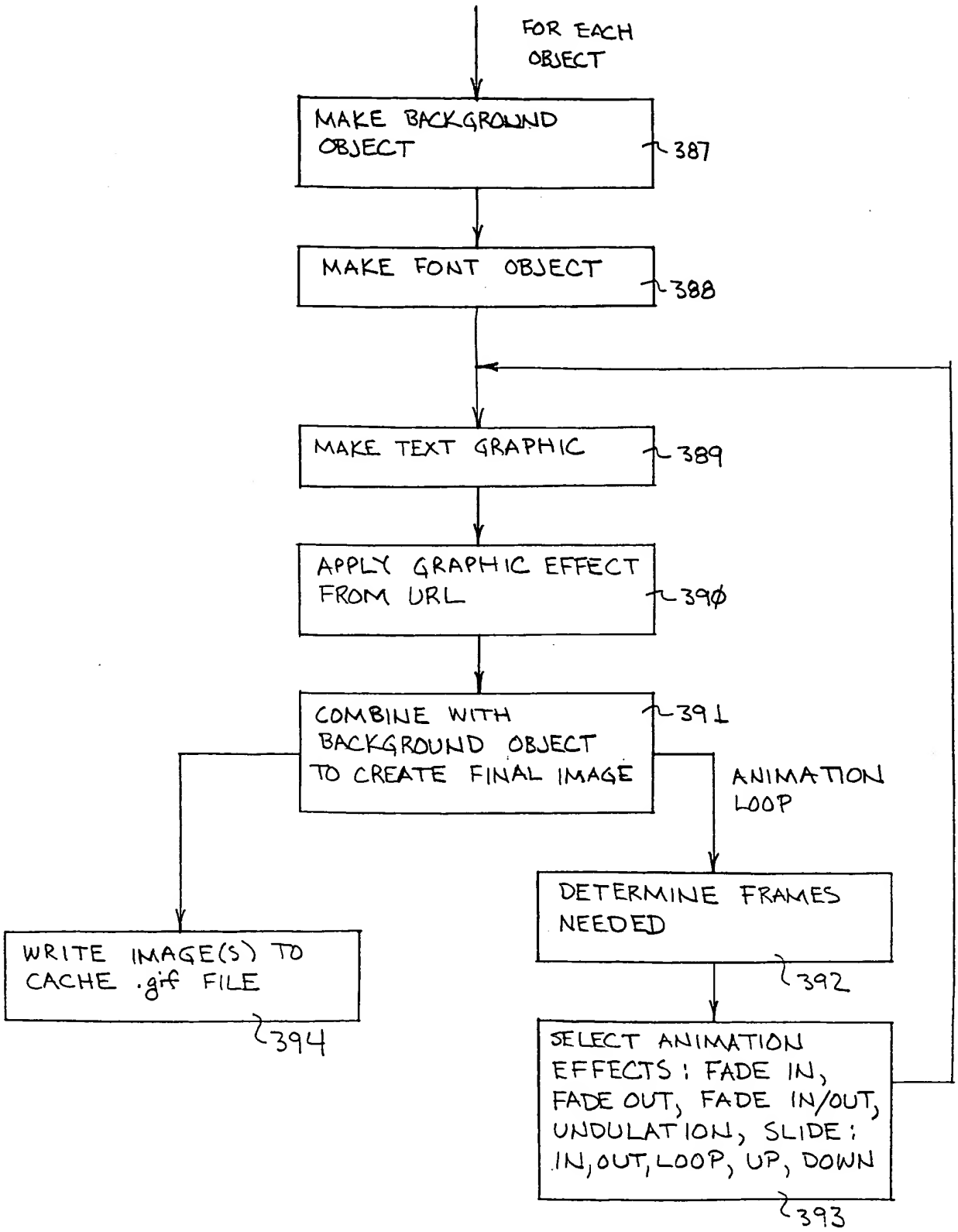

FOR EACH OBJECT
MAKE BACKGROUND OBJECT
387
MAKE FONT OBJECT
388
MAKE TEXT GRAPHIC
389
APPLY GRAPHIC EFFECT FROM URL
390
COMBINE WITH BACKGROUND OBJECT TO CREATE FINAL IMAGE
391
ANIMATION LOOP
DETERMINE FRAMES NEEDED
392
SELECT ANIMATION EFFECTS: FADE IN, FADE OUT, FADE IN/OUT, UNDULATION, SLIDE: IN, OUT, LOOP, UP, DOWN
393
WRITE IMAGE(S) TO CACHE .gif FILE
394

FIG. 26

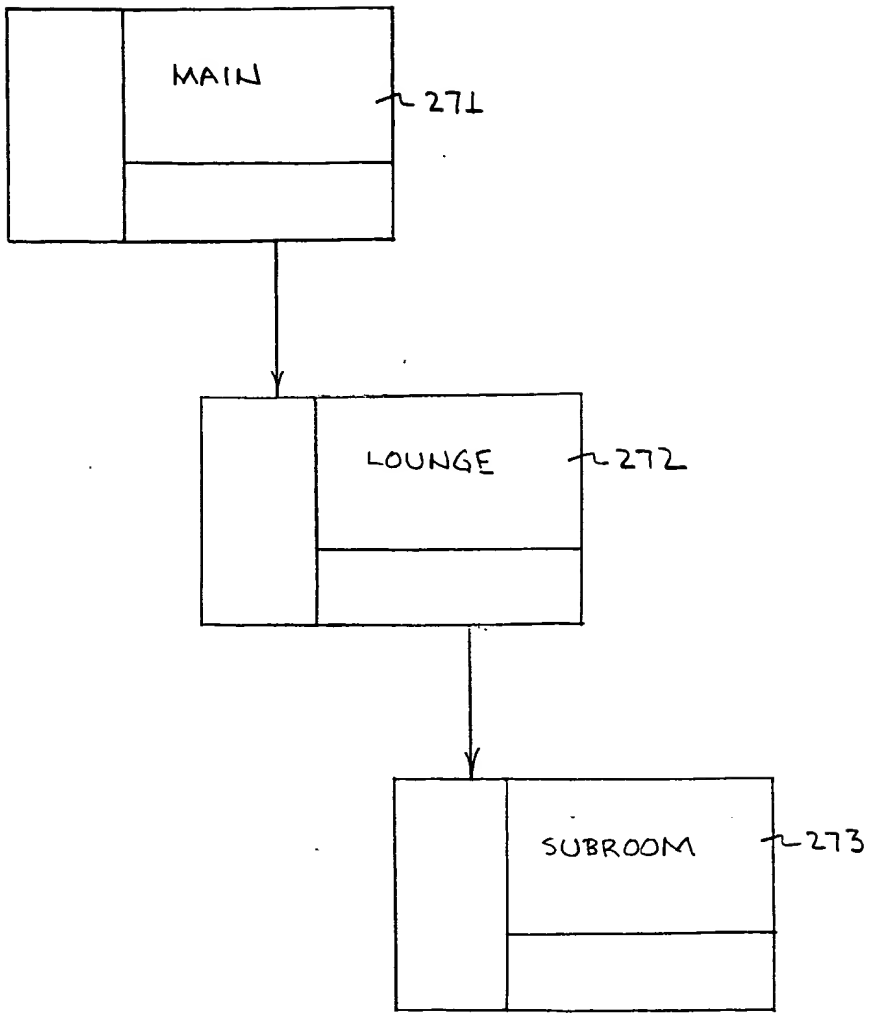


FIG. 27

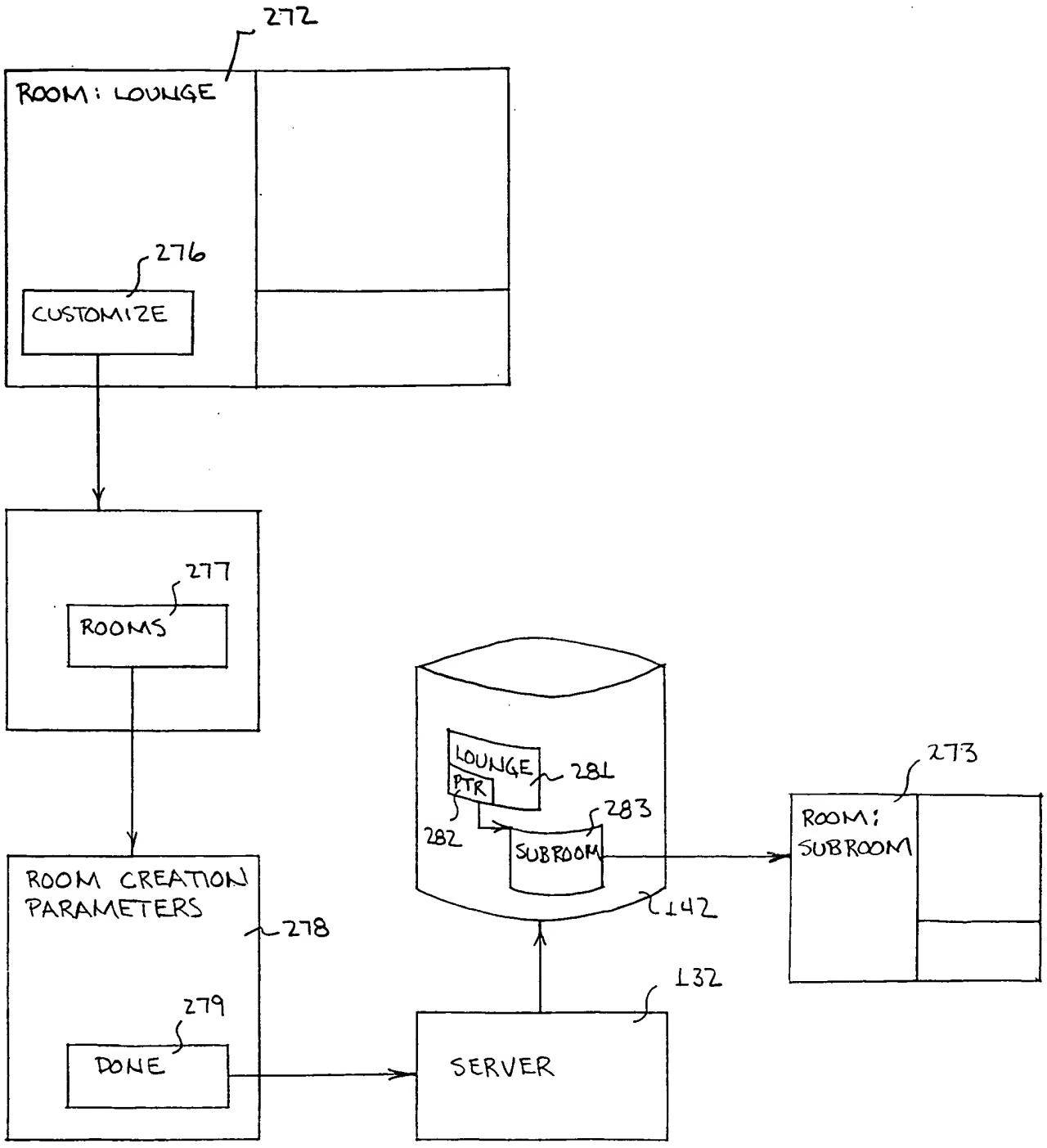

272
ROOM: LOUNGE
276
CUSTOMIZE
277
ROOMS
ROOM CREATION PARAMETERS
278
279
DONE
LOUNGE
PTR
281
282
283
SUBROOM
142
273
ROOM: SUBROOM
132
SERVER

FIG. 28

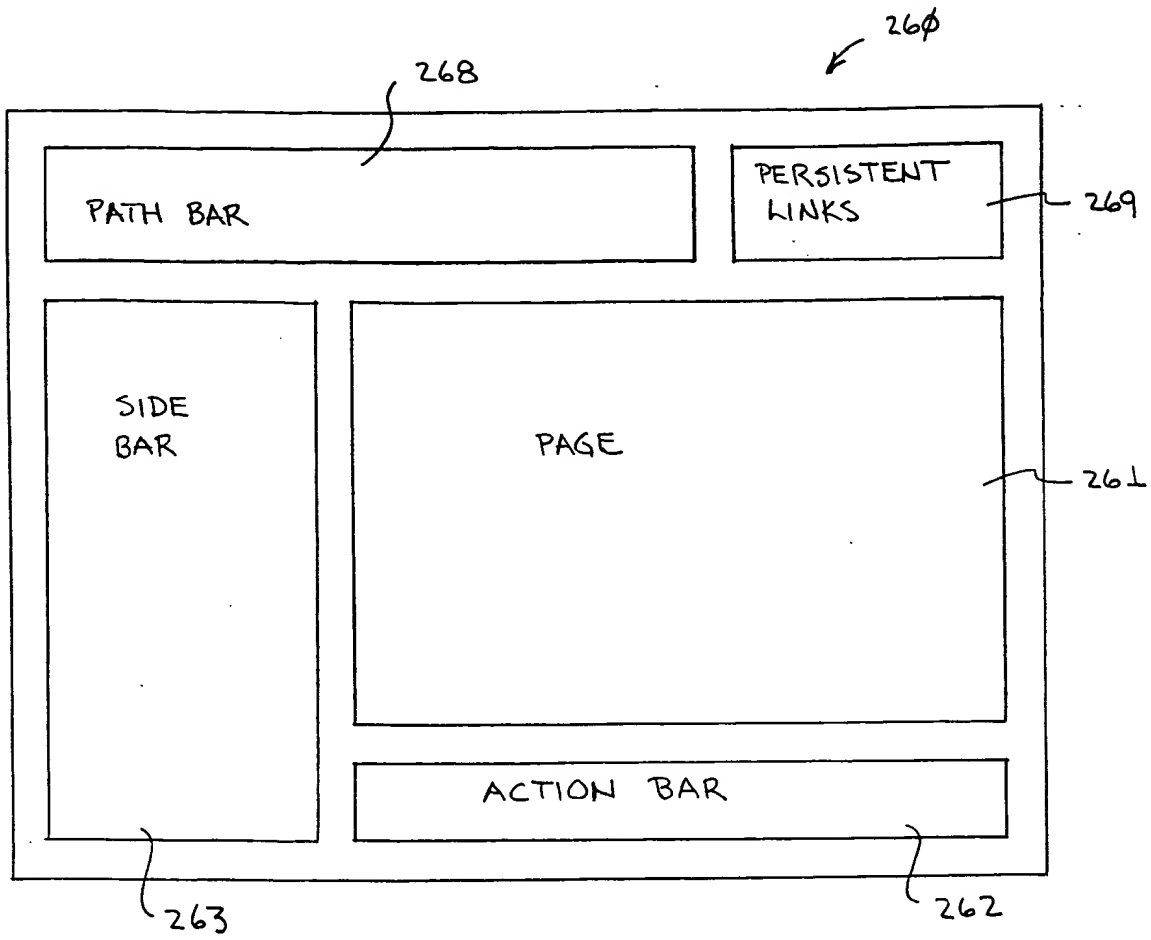

260
268
PATH BAR
PERSISTENT LINKS
269
SIDE BAR
PAGE
261
ACTION BAR
263
262

FIG. 29

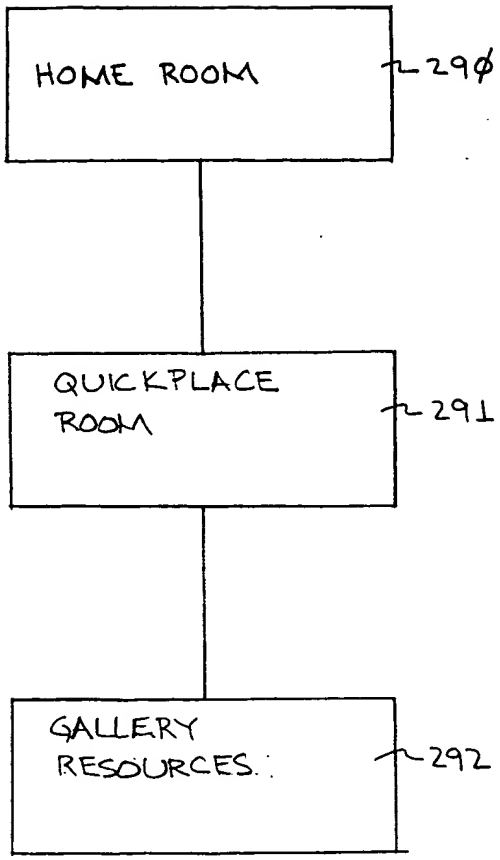


FIG. 30

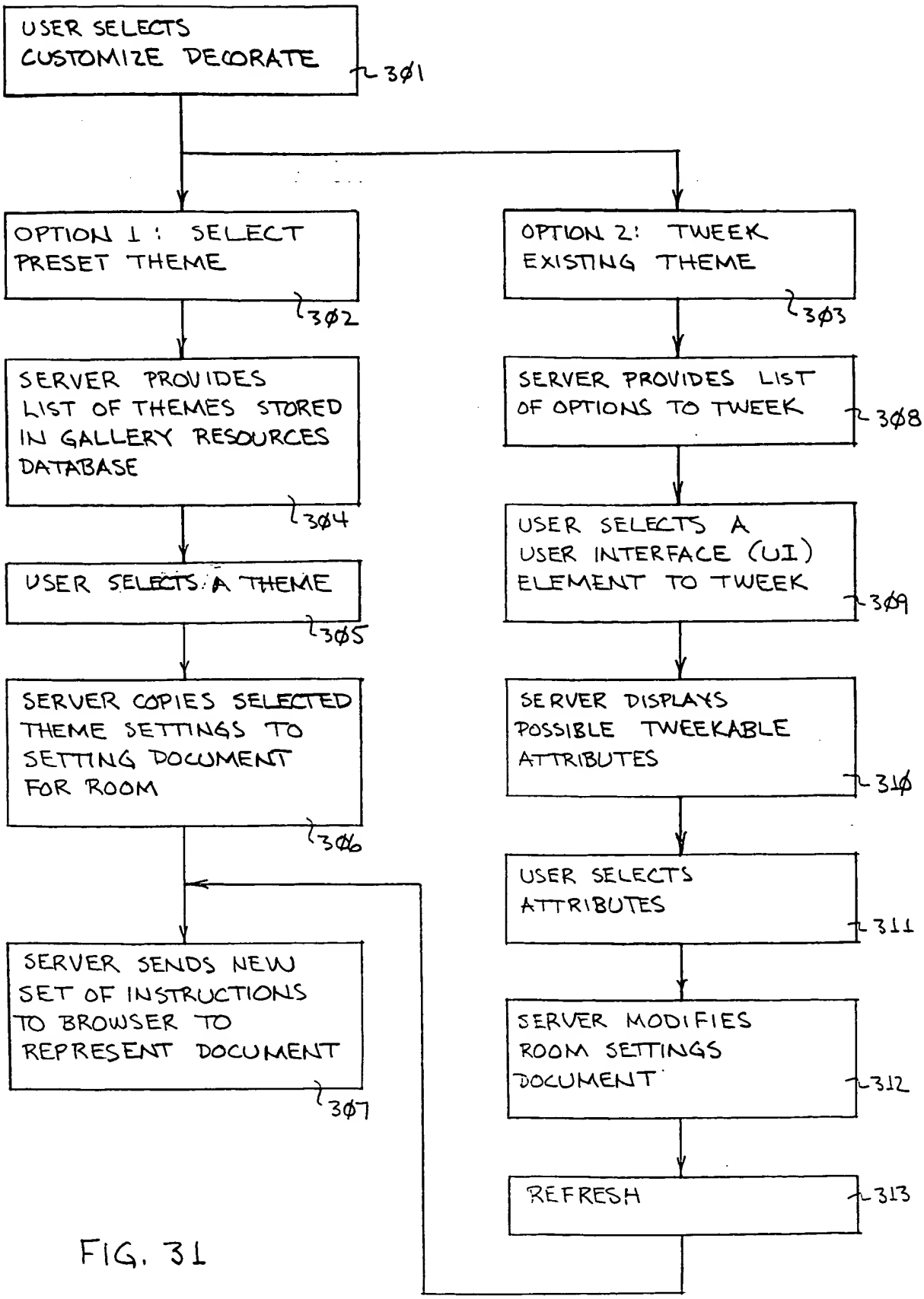

USER SELECTS CUSTOMIZE DECORATE
301
OPTION 1: SELECT PRESET THEME
302
SERVER PROVIDES LIST OF THEMES STORED IN GALLERY RESOURCES DATABASE
304
USER SELECTS A THEME
305
SERVER COPIES SELECTED THEME SETTINGS TO SETTING DOCUMENT FOR ROOM
306
SERVER SENDS NEW SET OF INSTRUCTIONS TO BROWSER TO REPRESENT DOCUMENT
307
OPTION 2: TWEEK EXISTING THEME
303
SERVER PROVIDES LIST OF OPTIONS TO TWEEK
308
USER SELECTS A USER INTERFACE (UI) ELEMENT TO TWEEK
309
SERVER DISPLAYS POSSIBLE TWEEKABLE ATTRIBUTES
310
USER SELECTS ATTRIBUTES
311
SERVER MODIFIES ROOM SETTINGS DOCUMENT
312
REFRESH
313

FIG. 31

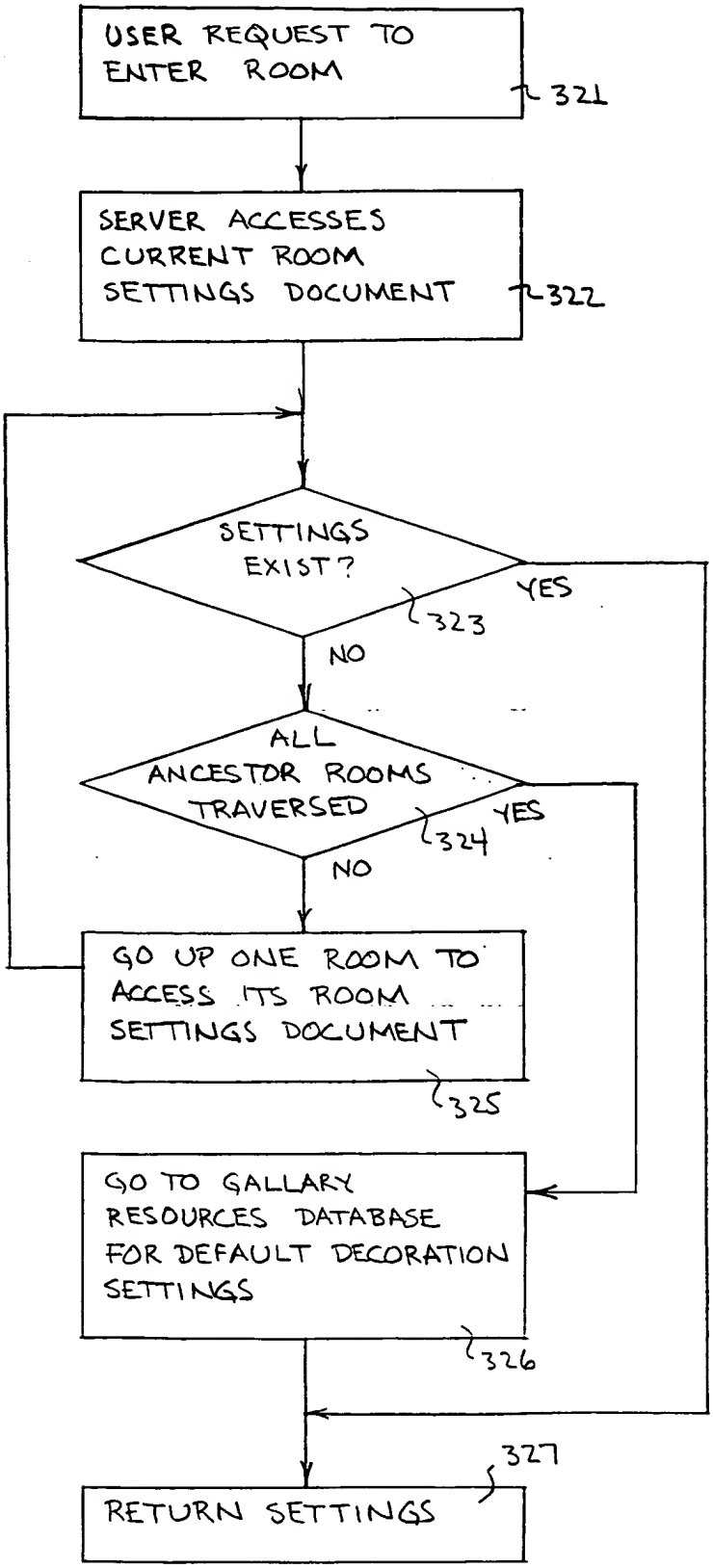

USER REQUEST TO ENTER ROOM
321
SERVER ACCESSES CURRENT ROOM SETTINGS DOCUMENT
322
SETTINGS EXIST?
323
YES
NO
ALL ANCESTOR ROOMS TRAVERSED
324
YES
NO
GO UP ONE ROOM TO ACCESS ITS ROOM SETTINGS DOCUMENT
325
GO TO GALLARY RESOURCES DATABASE FOR DEFAULT DECORATION SETTINGS
326
327
RETURN SETTINGS

FIG. 32

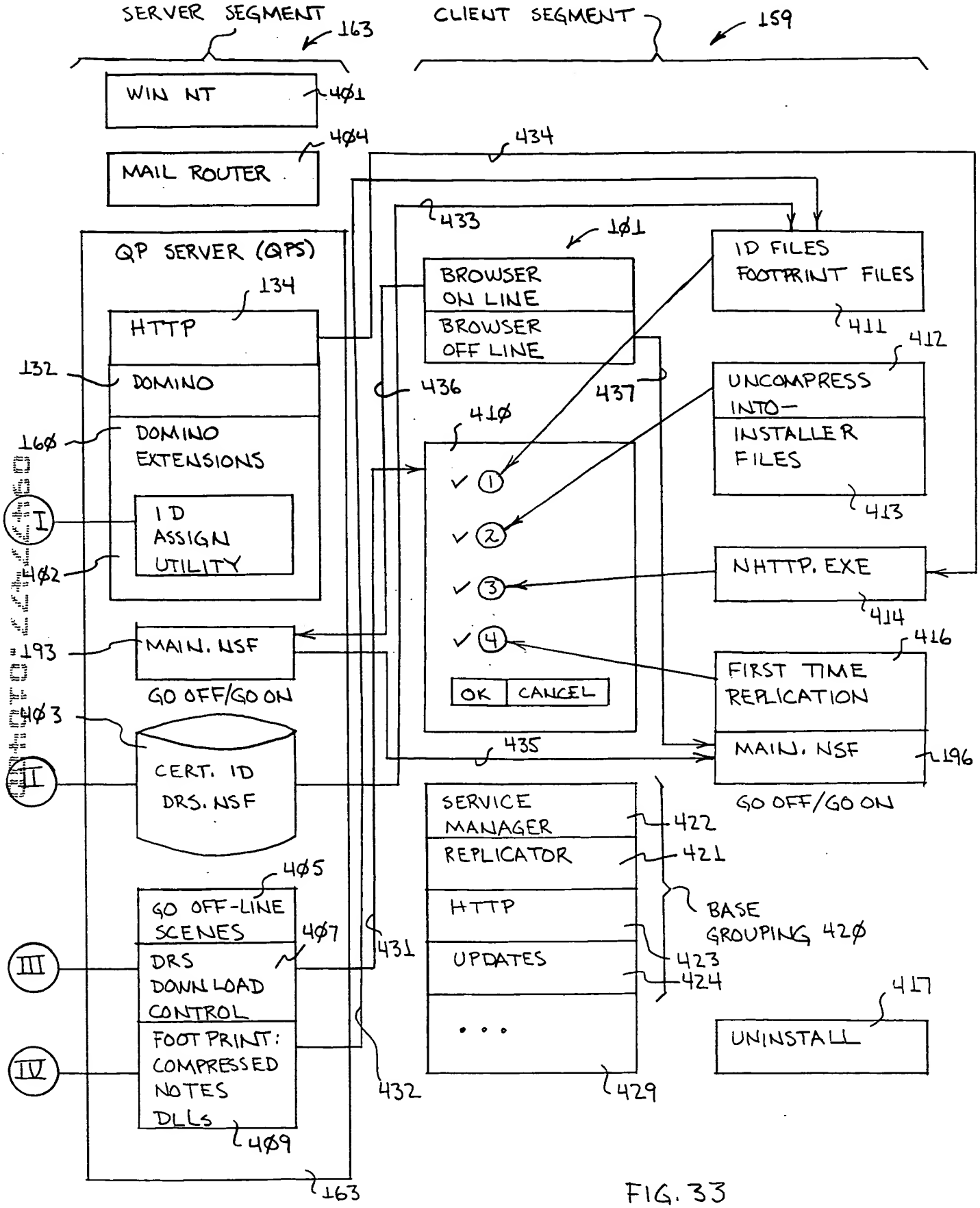

SERVER SEGMENT
163
CLIENT SEGMENT
159
WIN NT
401
MAIL ROUTER
404
434
433
101
QP SERVER (QPS)
134
HTTP
132
DOMINO
160
DOMINO EXTENSIONS
I
ID ASSIGN UTILITY
402
193
MAIN.NSF
GO OFF/GO ON
403
II
CERT. ID DRS.NSF
405
GO OFF-LINE SCENES
407
III
DRS DOWN LOAD CONTROL
IV
FOOT PRINT: COMPRESSED NOTES DLLs
409
163
BROWSER ON LINE
BROWSER OFF LINE
ID FILES FOOTPRINT FILES
411
412
UNCOMPRESS INTO-
INSTALLER FILES
413
436
437
410
1
2
3
4
OK
CANCEL
NHTTP.EXE
414
416
FIRST TIME REPLICATION
435
MAIN.NSF
196
GO OFF/GO ON
SERVICE MANAGER
422
REPLICATOR
421
HTTP
BASE GROUPING 420
UPDATES
423
424
• • •
429
431
432
417
UNINSTALL

FIG. 33

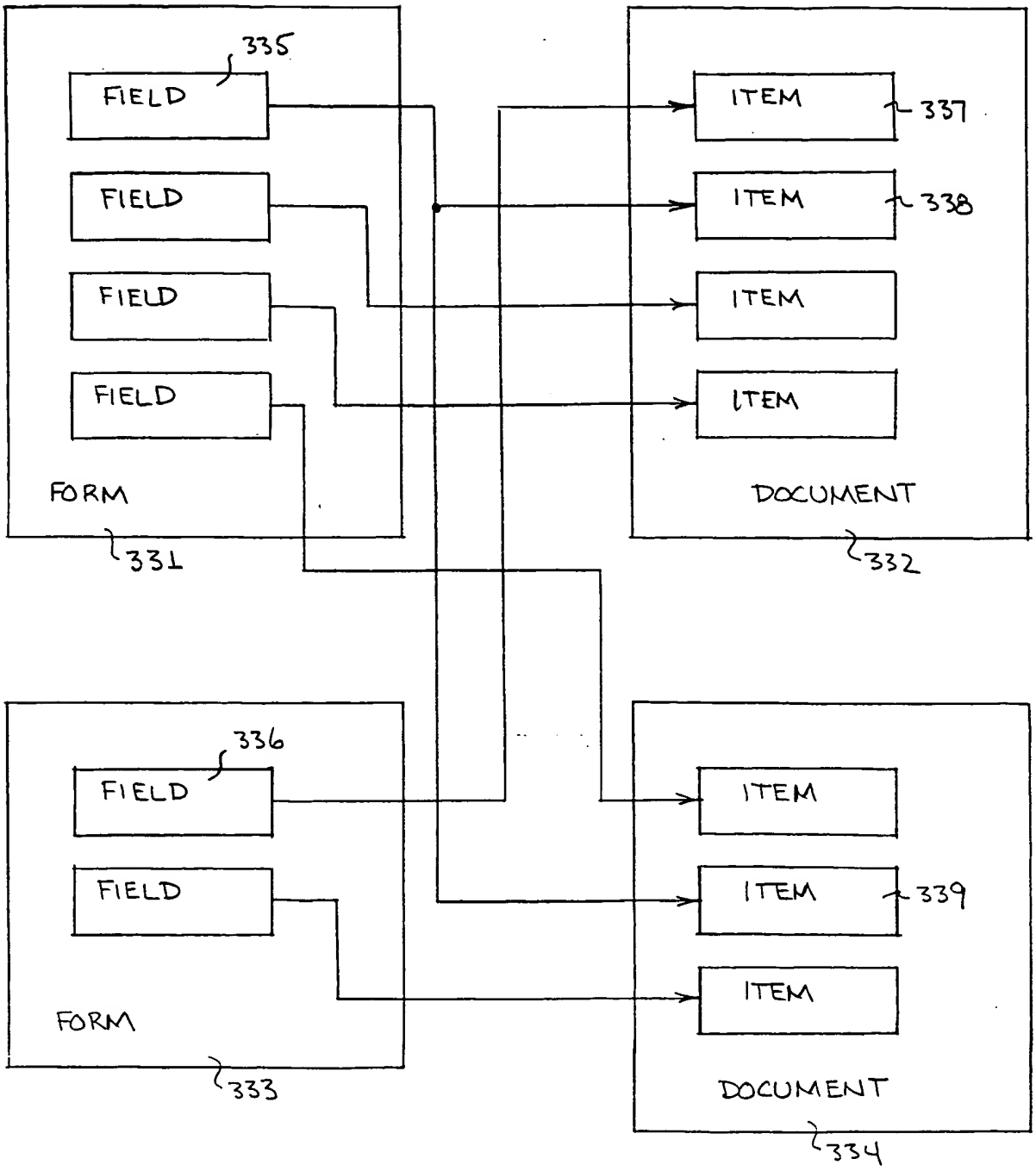

335
FIELD
FIELD
FIELD
FIELD
FORM
331
ITEM
337
ITEM
338
ITEM
ITEM
DOCUMENT
332
336
FIELD
FIELD
FORM
333
ITEM
ITEM
339
ITEM
DOCUMENT
334

FIG. 34

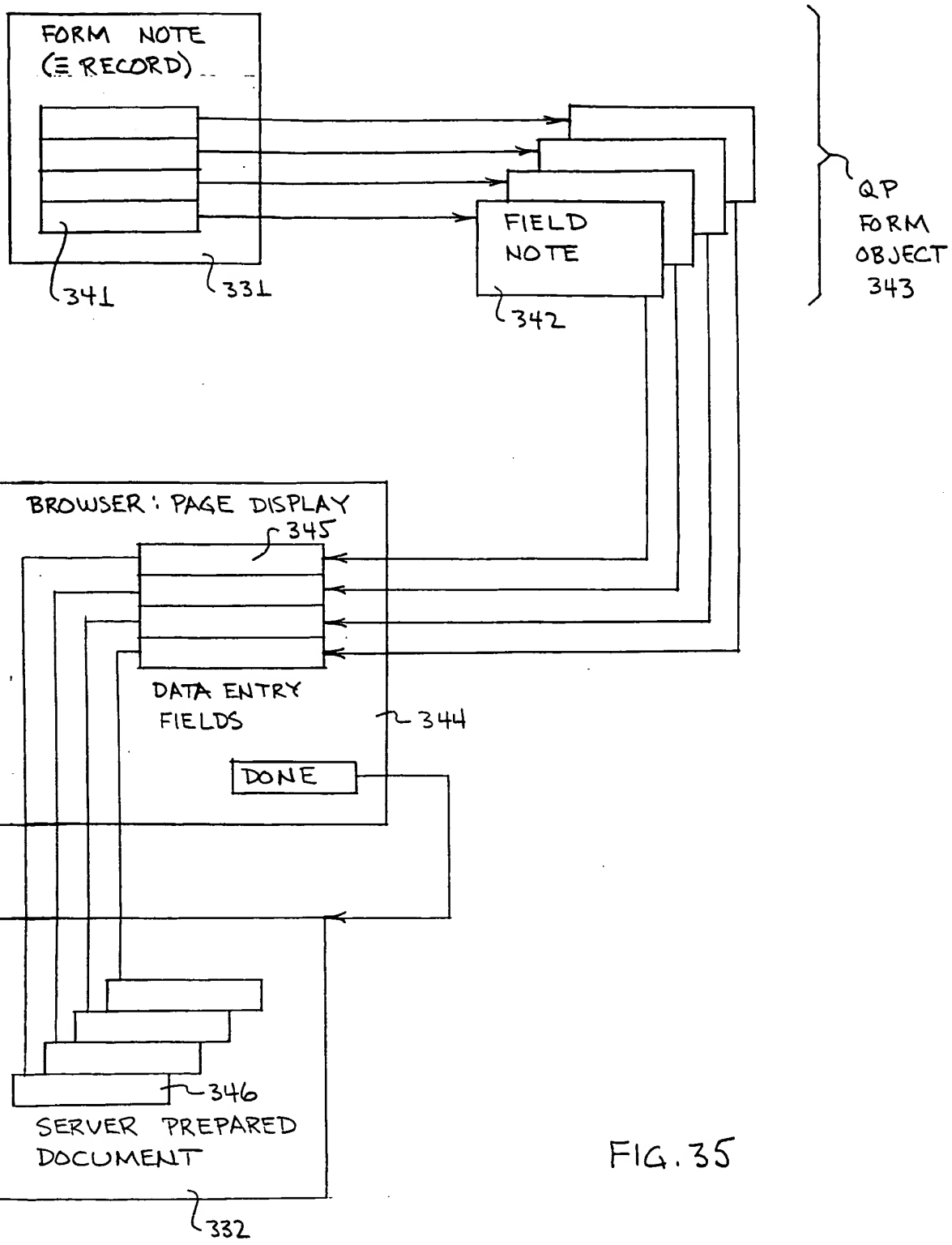

FORM NOTE
(≡ RECORD)
341
331
FIELD
NOTE
342
QP
FORM
OBJECT
343
BROWSER : PAGE DISPLAY
345
DATA ENTRY
FIELDS
344
DONE
346
SERVER PREPARED
DOCUMENT
332

FIG. 35